



ALEXCO RESOURCE CORP.

Brewery Creek Mine

2005 ANNUAL WATER LICENSE REPORT

Submitted to the Yukon Territory Water Board

Water Use License QZ96-007

2005 ANNUAL QUARTZ MINING LICENSE REPORT

Submitted to Yukon Government Energy Mines and Resources

Yukon Quartz Mining License A99-001

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February 2006

Executive Summary

The Brewery Creek Mine, owned and operated by Alexco Resource Corp., is located in central Yukon approximately 55 kilometres east of Dawson City. The mine operates under class 'A' Water Use License QZ96-007, originally issued as QZ94-003 in August 1995 and under Yukon Quartz Mining License A99-001 issued in 1999.

This report summarizes 2005 monitoring data and activities relevant to both the Water Use and Quartz Mining Licenses.

During 2005 no mining operations were conducted. The heap leach pad was detoxified in 2002 and drained down in 2003. At the end of 2005, the heap was fully shutdown and approximately 0.3 m³/hr was free draining from the heap.

During 2005, 35 hectares were reclaimed or required maintenance reclamation such as reseeding and erosion control.

The large scale lysimeter constructed in the Blue WRSA was monitored for chemistry and infiltration during 2005.

In 2005, no fresh water was withdrawn from Laura Creek.

From May – August 2005, 25,000 m³ of treated process solution was directly released into the Laura Creek watershed. No land application of solution occurred in 2005. Approximately 35,311 m³ of fresh water from the surface of the heap and surrounding catchment was released as it was captured in the preg pond.

Whenever flow and climatic conditions permitted, all monitoring required under QZ96-007 was carried out.

There was no surface discharge of accumulated waters from any of the 6 pits (Pacific, Blue, Moosehead, Kokanee, South Golden and Lucky). All water in the pits either evaporates or infiltrates into the ground.

Stream sediment monitoring was conducted in conjunction with third quarter surface water sampling.

The bi-annual benthic monitoring program was completed in August 2005.

A revegetation and metals uptake study and assessment was completed in August 2005.

A soil contamination survey was completed in August 2005.

SRK Consulting completed an independent analysis of the reclamation activities and remaining liabilities in September 2005.

A biological treatment cell was partially constructed in the barren pond during 2004. Initial treatment on a commissioning basis was conducted in 2005. Construction was not yet complete at the end of the year and some minor tasks are required in 2006. Once the BTC has been fully commissioned, an as-built design and performance results will be submitted.

No recordable spills occurred in 2005.

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1 INTRODUCTION

Brewery Creek Mine, owned and operated by Alexco Resource Corp., is located in central Yukon approximately 55 kilometers east of Dawson City. The mine is a conventional open pit heap leach operation that operated continuously from 1996 – 2001. The mine was permanently shut down in 2002 and fully reclaimed by the end of 2005.

The mine operates under class 'A' Water Use License QZ96-007, originally issued as QZ94-003 in August 1995 and under Quartz Mining License A99-001 issued in June 1999.

This report summarizes 2005 monitoring data and activities relevant to the Water Use and Quartz Mining Licenses.

2 2005 OVERVIEW OF ACTIVITIES

The following reclamation tasks and activities were completed in 2005:

January 2005

- Routine water quality monitoring was completed per the sites and conditions under Water License QZ96-007 and Quartz Mining License A99-001.
- Weekly site visits for security and wildlife protection were conducted on a weekly basis during the month.
- No other site activity was completed.

February 2005

- Routine water quality monitoring was completed per the sites and conditions under Water License QZ96-007 and Quartz Mining License A99-001.
- Weekly site visits for security and wildlife protection were conducted on a weekly basis during the month.

March 2005

- Routine water quality monitoring was completed per the sites and conditions under Water License QZ96-007 and Quartz Mining License A99-001.
- March sampling included quarterly monitoring.

- Weekly site visits for security and wildlife protection were conducted on a weekly basis during the month.
- No other site activity was completed.

April 2005

- Routine water quality monitoring was completed per the sites and conditions under Water License QZ96-007 and Quartz Mining License A99-001.
- Weekly site visits for security and wildlife protection were conducted on a weekly basis during the month.
- No other site activity was completed.
- One fulltime position was hired in late April to begin daily monitoring activities in anticipation of the spring freshet.

May 2005

- Routine water quality monitoring was completed per the sites and conditions under Water License QZ96-007 and Quartz Mining License A99-001.
- Two fulltime seasonal employees were on site beginning the first of May.
- Seeding and fertilization of the entire 8 km of main haul road was completed. A contractor was hired to provide the labor and tractor for seeding and the company's broadcast seeder was used. The seed and fertilizer was already on hand from the previous years work.
- Seeding and fertilization was completed in the Cell 8-10 area. This area was reseeded from the prior year.
- Hand seeding was completed in various areas including the ADR plant, lab, west face of the leach pad, North Golden silt stockpile.
- Cleanup of the boneyard began including burying any remaining non salvage material into the Moosehead landfill, burning wood and overall consolidation.

- There were a number of items sold from the previous year that had not yet been picked up by the purchaser. Some of these items included small buildings, electrical wire, transformers, pipe, etc. A number of local contractors began removing this material during the month.
- Cleanup of the hydrocarbon storage area commenced. A burn permit was obtained and the company's spent filter incinerator was used to burn off remaining hydrocarbons as well as miscellaneous old wood, etc.
- Fresh water that was collected in the preg pond as the result of surface runoff during the spring freshet was released by siphoning from the pond.

June 2005

- Routine water quality monitoring was completed per the sites and conditions under Water License QZ96-007 and Quartz Mining License A99-001.
- Two fulltime seasonal employees were on site during the month.
- Additional seeding and fertilizing was completed both by hand and with a 4-wheeler broadcast seeder in the areas of the valve house berm and around the perimeter of the solution ponds.
- Miscellaneous sinkholes and tension cracks were repaired in the Lucky Zone using the company's 375 excavator. The area was then reseeded and fertilized.
- Erosion damage on the haul road at the base of the North Golden WRSA was repaired using the company's 375 excavator.
- Work continued on cleaning the hydrocarbon fuel containment area.
- Compliant process solution from the underdrain of the heap was released by siphoning from the overflow pond. Total process solution released was 16,900 m³.
- Work continued on cleanup and consolidation of the remaining boneyard and laydown area.
- Unsalvageable material from the boneyard was buried in the Moosehead landfill using the 330M haultrucks.

July 2005

- Routine water quality monitoring was completed per the sites and conditions under Water License QZ96-007 and Quartz Mining License A99-001.
- Two fulltime seasonal employees were on site during the month.
- Compliant process solution from the underdrain of the heap was released by siphoning from the overflow pond. Total process solution released was 5,900 m³.
- The ditch from the outlet of the Kokanee pit to the first stream channel crossing was cleaned and widened using the 375 excavator.
- The old exploration camp building was demolished and reclaimed using the 375 excavator.
- The road to the old exploration camp located on the east end of the Blue WRSA was scarified and seeded.
- The remaining slags and cupels (156,000 kg.) from the assay lab were buried on the top of Cell 7 of the leach pad. Permission for burying this material was obtained by the Chief Mines Engineer of Yukon.

August 2005

- Routine water quality monitoring was completed per the sites and conditions under Water License QZ96-007 and Quartz Mining License A99-001.
- Two fulltime seasonal employees were on site during the month.
- Compliant process solution from the underdrain of the heap was released by siphoning from the overflow pond. Total process solution released was 2,000 m³.
- The road to the bottom of the Blue WRSA was scarified and reseeded using the 16G grader.
- The Moosehead landfill site was capped and reclaimed by placing and compacting a lift of growth media over the top of the backfilled site. The 992 loader was used to compact the area before an additional lift of growth media was applied. The area was seeded and fertilized.

- The haul road from the Moosehead Pit to the main haul road was scarified, seeded and reclaimed.
- All remaining access roads around the property with the exception of the one to the process ponds were scarified and reclaimed.
- Laberge Environmental conducted the bi-annual benthic monitoring program.
- Laberge Environmental conducted a revegetation monitoring program.
- Laberge Environmental conducted a metals uptake assessment.
- The annual sediment monitoring program was completed by the company with assistance from Laberge Environmental
- Access Consulting completed a contaminated soil survey report across various locations of the property.
- A biological treatment cell was partially constructed in the barren pond during 2004. Initial treatment on a commissioning basis was started in August 2005. Preliminary water quality results were obtained from the BTC in August and September. The results indicate positive and expected performance from the BTC with appreciable reductions in cyanide (75%), arsenic (66%) and selenium (70%).

September 2005

- Routine water quality monitoring was completed per the sites and conditions under Water License QZ96-007 and Quartz Mining License A99-001.
- Two fulltime seasonal employees were on site during the month.
- A rip rap channel was constructed at the outlet of the Pacific Pit.
- SRK Consulting completed a reclamation assessment and outstanding liability review.

October 2005

- Routine water quality monitoring was completed per the sites and conditions under Water License QZ96-007 and Quartz Mining License A99-001.

- One part-time seasonal employee was on site during the month.

November 2005

- Routine water quality monitoring was completed per the sites and conditions under Water License QZ96-007 and Quartz Mining License A99-001.
- Weekly site visits for security and wildlife protection were conducted on a weekly basis during the month.
- No other site activity was completed.

December 2005

- Routine water quality monitoring was completed per the sites and conditions under Water License QZ96-007 and Quartz Mining License A99-001.
- Weekly site visits for security and wildlife protection were conducted on a weekly basis during the month.
- No other site activity was completed.

2.1 Mining Summary

No mining of ore took place in 2005.

3 WATER USE

In 2005, no water was withdrawn from Laura Creek or BC-23.

4 MONITORING

4.1 Climate

Temperatures that are variable and extreme, with warm summers and prolonged extreme cold spells in winter characterize climate at the Brewery Creek Mine site. Typical of northern interior regions, most precipitation occurs as summer rain.

The 2005 climate monitoring data is summarized in Appendix A-1. 2005 climate data was collected manually during the period from January through December.

4.1.1 Temperature

June was the warmest month of the year with a high of 33.1°C. January was the coldest month with a minimum temperature of -36.0°C. 2005 monthly climate data is presented in Appendix A-2.

Brewery Creek data, collected since 1991, is summarized in Appendix A-3 (table and graph).

4.1.2 Precipitation

Total 2005 precipitation measured at the mine site was 408.0 mm (see Appendix A-1). 2005 was above the long-term average precipitation at Brewery Creek of 329 mm.

4.1.3 Evaporation Pan

In 1997 a galvanized pan conforming to Evaporation Pan Class 'A' dimensions (1219mm diameter by 254mm high), and a precipitation gauge were placed between the overflow and intermediate ponds. 2005 monitoring was conducted from May through September (Appendix A-7.1). Results are tabulated in Appendix A-7.2. The maximum monthly net evaporation was 129.0 mm, and occurred in June. Total net evaporation in 2004 was 464.0 mm.

4.2 Water Quality and Hydrology

4.2.1 Water Quality Monitoring

Water quality sampling was performed as required by Schedule B of Water License QZ96-007. Appendix B-1 presents a monthly summary of compliance sampling, and Table 4.1 a tabulation of samples obtained.

Table 4.1 2005 Compliance Water Quality Sampling

	Surface Water	Ground water	In-Pit	Solution Discharge	Heap Effluent	Land Application Lysimeters
Number of Samples in 2005	65	38	24	4	9	0

Components and procedures of the Brewery Creek Mine (BCM) water quality sampling program are summarized below.

Principal Water Quality Laboratory:

ALS Environmental
Vancouver, BC

The ALS Environmental Certificate of Accreditation is attached.

Sampling Equipment:

Bottles: Bottles are supplied by the principal laboratory, arrive on site in coolers, and are stored in coolers. A running inventory of approximately 50 (1L)CN, 50 (1L) standard analytical, and 50 (250 ml) metals sample bottles are maintained on open shelves in the environmental department. Bottles for cyanide analysis are specially labeled, and have been pre-preserved by the lab. Occasionally BCM staff has used a standard 1-litre bottle for cyanide sampling, and have added the NaOH pellet preservative from the environmental department's on-site supply.

Gloves: Sampling gloves are often used when taking surface water samples. Either neoprene, or rubber panner's gloves are used.

Groundwater Bailers: Single Sample™ disposable polyethylene bailers, 0.75" to 1.5" diameter are used.

Groundwater pump: Grundfos™ Redi-Flow 2 pump, with 200 foot REEL E-Z teflon-lined polyethylene hose is used for well purging and sampling.

Sampling Procedure:

Surface Water Sampling:

Both the outside of cyanide sampling bottle, and the sampling glove, are rinsed prior to opening the sample bottle. The bottle is opened; care is taken to not touch bottle rim or inside of cap. If stream depth permits, bottle is submerged with top facing upstream and allowed to fill. For shallower sites, the bottle is only partially submerged. Non-cyanide bottles and cap are rinsed twice with water from the sampling site. Rinse water is discarded downstream. Cyanide bottles are not rinsed prior to filling. The bottle is filled and tightly capped. Prior to capping total metals sample, a nitric acid preservative (supplied by the principal analysis lab) is added to the bottle.

Groundwater Sampling, Using Bailers:

The sample bottle is opened, and care is taken to not touch bottle rim or inside of cap. The bailer is emptied through the top of the bailer, into the bottle. Non-cyanide bottles and cap are rinsed twice with water from the sampling site. Rinse water is discarded on the ground. Cyanide bottles are not rinsed prior to filling. The bottle is filled, and cap is placed tightly on bottle.

Dissolved metals samples are filtered in the field using a disposable filter apparatus. The filter apparatus is attached to a sterile collection bottle. Once filtered, a nitric acid preservative is added to the filtrate, and the cap is placed tightly on the bottle.

Occasionally the principal analysis lab performs the filtering and preserving of dissolved metals samples.

Groundwater Sampling, from Pump Discharge:

The sample bottle is opened, and care is taken to not touch bottle rim or inside of cap. Non-cyanide bottles and cap are rinsed twice with water from the pump discharge hose. Rinse water is discarded on the ground. Cyanide bottles are not rinsed prior to filling. The bottle is filled, and the cap is placed tightly on bottle.

Dissolved metals samples are either filtered in the field using a disposable filter apparatus or filtered at the onsite mine environmental laboratory. The filter apparatus is attached to a sterile collection bottle. Once filtered, a nitric acid preservative is added to the filtrate, and the cap is placed tightly on the bottle.

Occasionally the principal analysis lab performs the filtering and preserving of dissolved metals samples.

Sample Labeling:

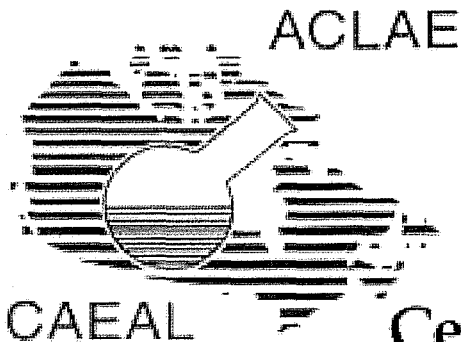
Sample bottles are labeled with the sample location site name, date sampled, and company name.

Sample Storage:

Samples are stored in a refrigerator at the mine site until shipping.

Sample Shipping:

Surface and groundwater compliance samples are shipped either the day of, or the day following sampling. Samples are placed in coolers with one or more refrigeration packs, and shipped via courier to Whitehorse and airfreight to Vancouver. The coolers are delivered to the principal laboratory.

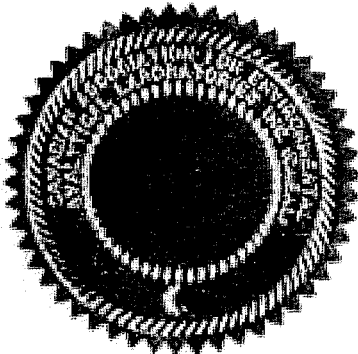


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Environmental Analytical
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Accreditation Date January 3, 2005

Issued on January 3, 2005

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4.2.2 Surface Water Quality Results

Locations and descriptions of surface water quality stations are given in Appendix B-1. 2005 surface water quality results are tabulated by station in Appendices B-5.1 and B-5.2. Certain key parameters including total suspended solids (TSS), nitrogen species (ammonia), and selected metals are graphically compared to historical data in Appendices B-5.3 to B-5.6. A major forest fire came through the Brewery Creek Mine in 2004 and most notably burned extremely hot through the Laura Creek watershed. The sampling results for total suspended solids (TSS) are evidence of the influence of the forest fires on water quality in the Laura Creek stations in 2005. TSS at stations BC-1, 2 and 3 are all elevated over historic levels. Stations such as BC-04 that were not influenced by the forest fire show typical TSS values as expected with historic levels.

4.2.3 Groundwater Quality Results

Locations and descriptions of groundwater quality stations are given in Appendix B-1. Water quality sampling from the groundwater stations is required on a quarterly basis as per the Water License.

4.2.4 In-Pit Monitoring Stations Water Quality Results

There was no mining activity in 2005 and mined out pits were used effectively as sediment control basins. Snow melt and precipitation run-off was directed to the closest inactive pit. Samples from all pits were taken from surface standing water within each pit.

In-pit samples were taken from the west end of Pacific Pit (BC-51W), Blue (BC-12), Moosehead Pit (BC-15), Kokanee Phase 3 (BC-10), South Golden Pit (BC-17), and Lucky (BC-18N, BC-18S).

Samples collected from the Kokanee Phase 3 and Golden pits (BC-10 and BC-17 respectively), show no abnormal values. Pacific Pit (BC-51) showed a lower pH and ranged from 3.3 – 6.37 during the sampling periods. High aluminum levels were associated with the lower pH during the same sampling periods. PH values in the Blue Pit (BC-12) ranged from 3.33 – 6.36 range throughout the 12 month sampling period. Increased levels of aluminum and iron were observed. Neither the Pacific or Blue Pits discharges to surface and all water infiltrates through the pit bottom. Previous years sampling in Moosehead showed higher levels of selenium. This trend appears to have reversed and selenium levels in Moosehead during 2005 were all below 0.05 mg/. As is the case for all other pits, the water is contained in the pit and either exfiltrates or evaporates.

4.2.5 Monitoring Conformance

Throughout the year certain monitoring stations or frequencies were not sampled due to various reasons. The following summarizes stations or frequencies that were not achieved:

BC-5: The first quarter sample was not obtained due to hazardous conditions (high flow) in the spring. This has occurred in previous spring quarters.

BC-9: This in pit station is Fosters Pit and has not had any water for several years and is therefore not sampled.

BC-11: This station is an intermittent seep at the toe of the Blue WRSA and there was no visible flow during the scheduled quarterly monitoring periods.

BC-13: This station is the Moosehead West Waste Dump and no longer exists and there is no visible flow to monitor.

BC-14: This station is the Moosehead East Waste Dump and no longer exists and there is no visible flow to monitor.

BC-16: This station is an intermittent surface flow below the Pacific Pit. There was only visible flow during the second quarterly period.

BC-20: This station is a piezometer below the leach pad and has been non-functional (collapsed, plugged) for several years and not sampled.

BC-23: This station is a deep well below the process area. The pump installed in BC-23 stopped functioning in 2004. An attempt was made to remove the pump and discharge pipe using the company's crane. During this exercise, the discharge pipe broke approximately 20 feet below the casing elevation. Further attempts to remove the pipe and pump have not been successful. Consequently there are no samples reported for BC-23.

BC-24: This station is a piezometer below the leach pad and has been non-functional (collapsed, plugged) for several years and not sampled.

BC-25: This station is a piezometer below the leach pad and has been non-functional (collapsed, plugged) for several years and not sampled.

BC-26: This station is a piezometer below the leach pad and has been non-functional (collapsed, plugged) for several years and not sampled.

4.2.6 Hydrology

Stream flow measurements for Laura Creek, Carolyn Creek, Lucky Creek, Lee Creek, and Pacific Creek were measured in 2005. All data are presented in Appendix C-1. Flowrates at the pumphouse station are included in Appendix C. Both tabular and graphical forms of flow are presented. Heap solution discharge rates are regulated by measured flows at the pumphouse station.

4.3 Benthic monitoring

As specified in Part F, Clause 45, of Water License QZ96-007 benthic monitoring is required on a bi-annual basis. Laberge Environmental Consultants conducted the 2005 benthic monitoring program and their report is included in Appendix D.

4.4 Sediment monitoring

Annual stream sediment sampling was conducted in August 2005. Samples were collected from within the active channel of the streams, using an aluminum scoop. The samples were sent to Activation Laboratories in Ancaster, Ontario. A minus 100-mesh sub-sample was analyzed for 33-element ultratrace ICP at Activation Laboratories in Ancaster, Ontario. Loss-on-ignition (LOI) was determined by heating the sample to 600°C. Upon receipt of the sediment sample results from Activation Labs, only one sample was reported for each sample location. Upon investigation and follow-up, it appears the laboratory mistakenly composited the three samples for each location and reported a single analysis for each location. This error was not discovered until very late in the year after the results were received from the lab and consequently there was no opportunity to resample the sites in triplicate. These results are presented in Appendix E.

4.5 Revegetation Monitoring

A revegetation monitoring and assessment report was completed by Laberge Environmental Consultants in August 2005. The assessment included the success of revegetation across the property as well as a metals uptake study for the Blue WRSA and Leach Pad. The Laberge report is included in Appendix I. Conclusions and recommendations are included in the report.

4.6 Leak Detection and Recovery Systems

Monitoring of (LDRS) systems was discontinued in 2005, consistent with long-term closure plans and the fact the heap has been fully decommissioned and drained. The leak detection piping and collection system remains intact however.

4.7 Air Quality

No air quality monitoring for mercury emissions was conducted in 2005 due to the dismantling of the ADR facility in 2004 and the cessation of refining. No further air quality monitoring is anticipated.

4.8 Effects on Wildlife

4.8.1 Process-Related Mortalities

No wildlife mortalities were reported in 2005. A significant number of caribou were found entrapped in the lined overflow pond in October 2005. In addition, approximately 200 + caribou were active on the minesite and grazing on the revegetated leach pad, Blue WRSA and haul road over an approximate 2 week period in October. A pathway using fencing and straw was constructed in 2 corners of the overflow pond to allow the caribou to safely exit the pond on their own. Daily inspections were completed by site personal until the herd had left the property and continued their seasonal migration. No mortalities occurred during this period.

4.9 Reclamation Activities Report

An inspection of the reclamation activities and remaining liabilities was completed by SRK Consulting during September 2005. This report fulfills the annual physical inspection report requirement in the water license. This report has been submitted in a separate cover.

5 RECLAMATION

No major earthwork activity took place in 2005 and the majority of site activity consisted of general cleanup and reorganization of the boneyard and erosion maintenance in the reclaimed areas.

A summary of the maintenance work completed is shown in Table 5.1

Table 5.1 2005 Reclamation Summary

Mine Area	Total Hectares 2005	Description of Work
Blue Pit		No work completed or necessary
Blue WRSA	0.25	Erosion maintenance work at entrance to WRSA, re-scarify and seed the access road to bottom of WRSA
Pacific	0.1	Construct overflow channel from outflow of Pacific Pit
Moosehead	0.40	Cover and revegetate Moosehead landfill, rip the access road
Canadian	0.25	Reseed top end of Canadian WRSA
Fosters		No work completed or necessary
Kokanee	0.25	Clean overflow channel from Kokanee pit outflow to stream crossing #5
North Golden	0.15	Maintenance recontouring with backhoe stockpile adjacent to haul road, repair erosion damage outside perimeter of haul road
South Golden		No work completed or necessary
Lucky	0.15	Repair misc. sinkholes and erosion damage, reseed
Heap	0.1	Repair misc, erosion damage
Cell 8-10	2.5	Repair misc, erosion damage, reseed
Site Facilities		Boneyard cleanup, organization
Haulage and Access Roads	31.5	Seed and fertilize main haul road
Total	35.65	

The following summarizes the reclamation work completed in 2005.

5.1.1 **Kokanee**

Reclamation in the Kokanee consisted of cleaning the overflow ditch from the outlet of the Kokanee Pit to the nearest stream channel. Seed and fertilizer was applied to the haul road adjacent to the Kokanee Pit. The work was done using the company's 375 excavator.

5.1.2 **Golden**

Erosion control on the haul road adjacent to the North and South Golden Pits was completed. Surface water runoff from the face of the North Golden recontoured waste dump created erosion gullies across the reclaimed haul road. Seed and fertilizer was applied to the haul road after the erosion control was complete. The work was done using the company's 375 excavator.

5.1.3 **Lucky Pit**

Minor settling cracks and sinkholes were repaired and mitigated in the Lucky Pit area. The work was completed using the company's 375 excavator. This work was recommended by SRK in the 2004 geotechnical inspection report.

5.1.4 **Upper Fosters**

No work was completed in the Upper Fosters area.

5.1.5 **Canadian**

An area on the top end of the Canadian WRSA that was disturbed in 2004 was seeded and fertilized in 2005. No other work was completed in the Canadian area in 2005.

5.1.6 **Pacific**

An overflow channel for the Pacific Pit was constructed across the haul road adjacent to the pit.

5.1.7 **Moosehead**

The landfill area was covered with adjacent stockpiled growth media using the company's 992 loader and 375 excavator. Material in the landfill was compacted as much as possible and covered with approximately 2.0 meters of growth media. The surface was seeded and fertilized. The access road from the main haul road to the Moosehead Pit was ripped and scarified using the company's 16G grader. A berm of material adjacent to the road edge was also used as cover material for the access road. The road was then seeded and fertilized.

5.1.8 Cell 8-10

Additional maintenance work was completed in the Cell 8-10 area, primarily consisting of ripping and scarifying erosion damage from the spring freshet. The entire Cell 8-10 area was reseeded and fertilized as this area was identified as having poor revegetation growth from the prior year.

5.1.9 Heap

Minor erosion maintenance was completed on the west face of the heap. The 375 excavator was used to scarify the surface erosion damage.

5.1.10 Haulage and access roads

Seven kilometers of main haul road were seeded and fertilized in 2005. This 31 ha area was seeded in May 2005.

5.1.11 Stream Crossings

No work was completed in the stream crossings along the main haul road. No erosion occurred in the channels during 2005 and only one of the 5 crossings (Canadian corner) experienced any surface runoff through the channel.

5.1.12 Site Facilities

Site facility work completed in 2005 included general cleanup and reorganization of the boneyard. Several items sold to local contractors and individuals were removed from the property throughout the spring and summer of 2005.

5.1.13 BTC

A biological treatment cell was partially constructed in the barren pond during 2004. Initial treatment on a commissioning basis was conducted in 2005. Construction was not yet complete at the end of the year and some minor tasks are required in 2006. Once the BTC has been fully commissioned, an as-built design and performance results will be submitted. Preliminary water quality results were obtained from the BTC in August and September. The results indicate positive and expected performance from the BTC with appreciable reductions in cyanide (75%), arsenic (66%) and selenium (70%). The water quality results for the BTC are included in Appendix B. Additional optimization of the BTC and completion of construction will be completed in 2006.

6 REAGENT AND WASTE MANAGEMENT

6.1 Spill Occurrence and Response

No reportable spills occurred in 2005.

6.2 Reagent Storage and Handling

As the leaching process ceased in 2001, the majority of chemical reagents have already been disposed of and reported in previous annual reports. The remaining assay lab cupels and slag were buried on the top end of Cell 7. This was done with written permission from the Chief Mines Inspector and the local EMR inspector. The following table summarizes the remaining quantities of reagents and chemicals stored on site during 2005.

Table 6.1 Storage of Major Reagents During 2005

Product	Quantity Used 2005/Stored at end of Year	Storage Location	Storage Method
Hydrochloric Acid	6 drums stored	Adjacent to Preg Pond	238 kilo drums (45 imp. gal.)
Hydrogen Peroxide	6 drums stored	Adjacent to Preg Pond	45 imp. Gal. drums
BTC Nutrients	10,000 liter stored	Adjacent to Preg Pond	25,000 liter storage tank

6.3 Waste Management

6.3.1 Waste Oil

10 drums of used oil and water/diesel were burned off in the small filter incinerator used for burning equipment filters. A burn permit was obtained prior to burning. After all of the remaining hydrocarbons were removed or burned off at site, the HDPE lined containment areas was scarified and fertilizer applied. Additional fertilizer will continue to be applied and resampled in the future. All transporters of waste oil are required to fully comply with the Yukon Special Waste Regulations, the Transportation of Dangerous Goods and the Yukon Spill Reporting Regulations.

6.3.2 Waste Storage and Disposal

Disposal of major waste products at the mine site is summarized in Table 6.2.

Table 6.2 Waste Disposal During 2005

Product	Quantity Disposed 2005	Disposal Method
Automotive/Heavy Equipment Batteries	19	Local Dawson City recycling center at Quigley Landfill
Small 12V batteries	17	Local Dawson City recycling center at Quigley Landfill
Radio, flashlight batteries	19	Local Dawson City recycling center at Quigley Landfill
Cupels, Fire Assay	156,000 kg (@ 35g lead oxide)	Buried in top end of Cell 7 of heap
Used oil	10 drums	Sold to local contractors, residual burned off on site
Metal, lightweight (not drums)	~ 3,500kg	Landfilled in Moosehead pit
Spent Carbon	40 tonnes	Shipped to Metals Research Kimberly Idaho for reprocessing and disposal
Mercury	450 lb.	Shipped for recycle to Mercury Waste Solutions
Metal, heavy scrap	~10,500 kg.	Sold to local contractors

7 WATER MANAGEMENT

7.1 Direct Release

A total volume of 25,000 m³ of compliant process solution and 35,311 m³ of fresh water was directly released in 2005. No solution was land applied in 2005. The company's license requires the lined process ponds and solution collection systems remain in place until the total cyanide from the heap has remained below 2.0 ppm for a total of 5 years at which time heap stability has been demonstrated. All samples from BC-28a (heap effluent) were below 2.0 ppm total cyanide in 2005. The first sample from the heap below 2.0 ppm total cyanide was in February 2002. All samples subsequently taken have returned a total cyanide value below 2.0 ppm. The company considers that 4 years have now elapsed with total cyanide below 2.0 ppm and one year remains to achieve the 5 year water license requirement. However this requirement creates a condition where the fresh water from the surface of the heap during spring freshet is directed and contained in the preg pond and is not directly released. The company's license condition for process solution release is an annual limit of 25,000 m³. The 25,000 m³ limit was not intended to limit the amount of fresh surface water runoff released from the heap since this is an uncontrollable quantity and directly related to annual precipitation. Since the fresh water is contained separately from the leach pad underdrain, the release of the fresh water is not counted against the 25,000 m³ limit and is recorded separately. This condition will be rectified once the heap has been deemed stable and the ponds are removed and the surface drainage reestablished. A summary of the volumes by month is shown in Table 7.1. The volume of land application released solution is included.

Table 7.1 Solution Release

Month	Process Solution Direct Release (m ³)	Fresh Water Direct Release (m ³)	Land App Release (m ³)	TOTAL (m ³)
January				
February				
March				
April				
May		28,305		28,305
June	16,987	7,006		23,993
July	5,936			5,936
August	2,077			2,077
September				
October				
November				
December				
Totals 2005	25,000	35,311		60,311
Totals To 2002 - 2005	109,947		151,796	297,054
Remaining Permitted	na	na	248,204	

7.2 Selenium Criteria

Water quality results for BC-39 are included in Appendix B. All sampling periods at BC-39 returned a selenium concentration below the water license criteria for site specific levels. The site specific selenium criteria for compliance at station BC-39 is 3.8 ug/l. The highest selenium measured at station BC-39 during the year was 3.0 ug/l and the lowest was < 1 ug/l.

7.3 Heap Cover Infiltration

The water balance model used in all previous Brewery Creek assessments has been modified and updated to determine the estimated infiltration of precipitation through the heap cover. The model uses actual snowpack and precipitation data, pond volumes and release volumes to determine the amount of solution that infiltrates through the cover. The model results are included in Table 7.2. The model differentiates and separates surface runoff from water that infiltrates through the cover. It is anticipated that this model will be modified and calibrated as time goes on and more actual field performance of the cover is realized. The model uses the basic water balance assumption of:

$$\text{Starting Pond Volume} + \text{Water In} - \text{Water Out} = \text{Ending Pond Volume}$$

The starting and ending pond volumes can be measured at the end of each reporting period. For the basis of the model, a monthly period is used.

Water IN is measured by actual precipitation measurements. The amount of precipitation falling over the leach pad is separated from the amount falling over the ponds.

Water OUT is directly measurable from land application and direct discharge flowmeters. The model balances the Water IN and OUT and calculates the "missing" amount of water that has left the system. This amount is assumed to be the volume that has been lost through evapotranspiration and uptake by vegetation.

The estimated infiltration through the heap for the period 2004-2005 is estimated at 24.1%. Details of the monthly inputs and calculations are found in Table 7.2. This calculated infiltration rate compares with the 30.0% infiltration rate estimated by the soil cover design modeling. Based on the water quality measured at BC-28a and the demonstrated infiltration rates through the cover, the remediation measures implemented on the heap are demonstrated to be effective.

Alexco Resource Corp.
Brewery Creek Mine
Heap Infiltration Model

TABLE 7.2

Pond Volume Start + IN - OUT = Pond Volume End

Pond Volume Start + Heap Infiltrate + Heap Spring Runoff + Pond Precip - Direct Release - Land App = Pond Volume End

Heap Infiltrate = Pond Volume End - Pond Volume Start - Heap Spring Runoff - Pond Precip + Direct Release + Land App

Pond Volume Start (m3) = 63,000 1-Jan-04
 Pond Volume End (m3) = 51,949 31-Dec-05
 Heap Spring Runoff (m3) = 60,054
 Pond Precip (m3) = 25,874
 Direct Release (m3) = 145,188
 Land App Release (m3) = 13,161

Heap Infiltrate (m3) = 61,370
 Total Heap Precip (m3) = 254,647
 Estimated Heap Infiltrate % 24.1%

* Feb-04 precip is the cumulative snowpack from October 2003 - February 2004

Month	CLIMATIC INPUTS		CATCHMENT AREAS						SOLUTION OUT			Actual Pond Volume
	Precip. mm	Total Tonnes to Pad	Total Liner Area m ²	Ponds Catchment Area m ²	Precip Fallen Leach Pad	Heap Spring Runoff into Ponds	Precip Fallen Ponds	TOTAL IN	Direct Release	Land Application Release	Total Releases	
	Input	Input	Input	Input	Calc		Calc	Calc	Input		Calc	
Jan-04		9,458,197	311,000	31,600	0		0	0			0	63,000
Feb-04 *	158.0	9,458,197	311,000	31,600	49138		4993	54,131			0	65,592
Mar-04	17.5	9,458,197	311,000	31,600	5443		553	60,126			0	68,184
Apr-04	11.9	9,458,197	311,000	31,600	3701		376	64,203			0	73,965
May-04	11.5	9,458,197	311,000	31,600	3577	24,743	363	68,143	21,052		21,052	77,482
Jun-04	19.8	9,458,197	311,000	31,600	6158		626	74,927	18,021		18,021	65,782
Jul-04	47.6	9,458,197	311,000	31,600	14804		1504	91,234	16,927	13,161	30,088	39,348
Aug-04	6.4	9,458,197	311,000	31,600	1990		202	93,427	22,701		22,701	22,745
Sep-04	27.0	9,458,197	311,000	31,600	8397		853	102,677	6,246		6,246	21,711
Oct-04	43.0	9,458,197	311,000	31,600	13373		1359	117,409			0	24,303
Nov-04	31.0	9,458,197	311,000	31,600	9641		980	128,030			0	26,895
Dec-04	37.1	9,458,197	311,000	31,600	11538		1172	140,740			0	29,487
Jan-05	22.4	9,458,197	311,000	31,600	6966		708	148,414			0	32,079
Feb-05	33.2	9,458,197	311,000	31,600	10325		1049	159,789			0	34,671
Mar-05	18.9	9,458,197	311,000	31,600	5878		597	166,264			0	37,263
Apr-05	26.0	9,458,197	311,000	31,600	8086	15,750	822	175,171			0	59,616
May-05	37.9	9,458,197	311,000	31,600	11787	19,561	1198	188,156	28,305		28,305	58,548
Jun-05	37.6	9,458,197	311,000	31,600	11694		1188	201,038	23,993		23,993	39,873
Jul-05	38.9	9,458,197	311,000	31,600	12098		1229	214,365	5,936		5,936	34,527
Aug-05	63.7	9,458,197	311,000	31,600	19811		2013	236,188	2,007		2,007	41,560
Sep-05	49.9	9,458,197	311,000	31,600	15519		1577	253,284			0	43,463
Oct-05	13.9	9,458,197	311,000	31,600	4323		439	258,046			0	47,525
Nov-05	44.5	9,458,197	311,000	31,600	13840		1406	273,292			0	49,688
Dec-05	21.1	9,458,197	311,000	31,600	6562		667	280,521			0	51,949

7.4 Blue WRSA Lysimeter

A large scale lysimeter was constructed in 2003 to measure and collect precipitation as it passed through the 0.5 meter soil cover. Water quality samples are collected and analyzed. These results are included in Appendix B. The water quality from the large scale lysimeter is consistent with predictions made by SRK Consulting and there is no evidence of metal leaching or transport from the Blue WRSA material within the lysimeter.

The lysimeter also provides a mechanism to measure the overall level of precipitation infiltrating through the soil cover. A tank installed at the base of the Blue WRSA captures and measures the volume of solution that has passed through the cover. Precipitation levels throughout the year are measured and the percent infiltration can be calculated. Table 7.3 summarizes the infiltration rates through the lysimeter cover over the period March 2004 – December 2005. The overall infiltration during this period is estimated at approximately 4% which is significantly less than the predicted rates from the modeling. Figures 7.1 and 7.2 present graphically the infiltration rates through the Blue WRSA cover.

Based on the water quality from the lysimeter and the infiltration rate through the cover, the remediation measures implemented in the Blue WRSA are demonstrated to be effective.

Figure 7.1
Blue WRSA Lysimeter

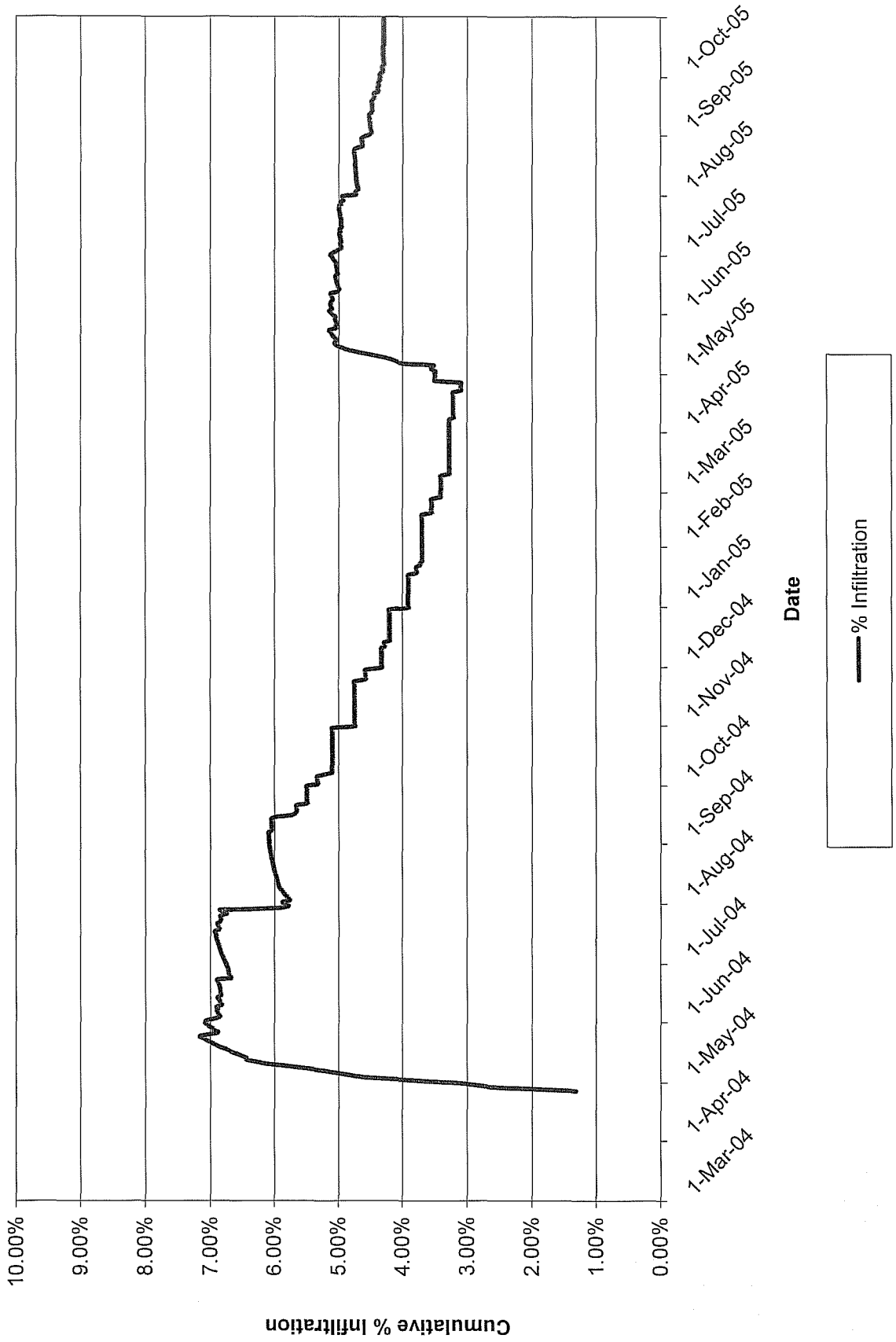
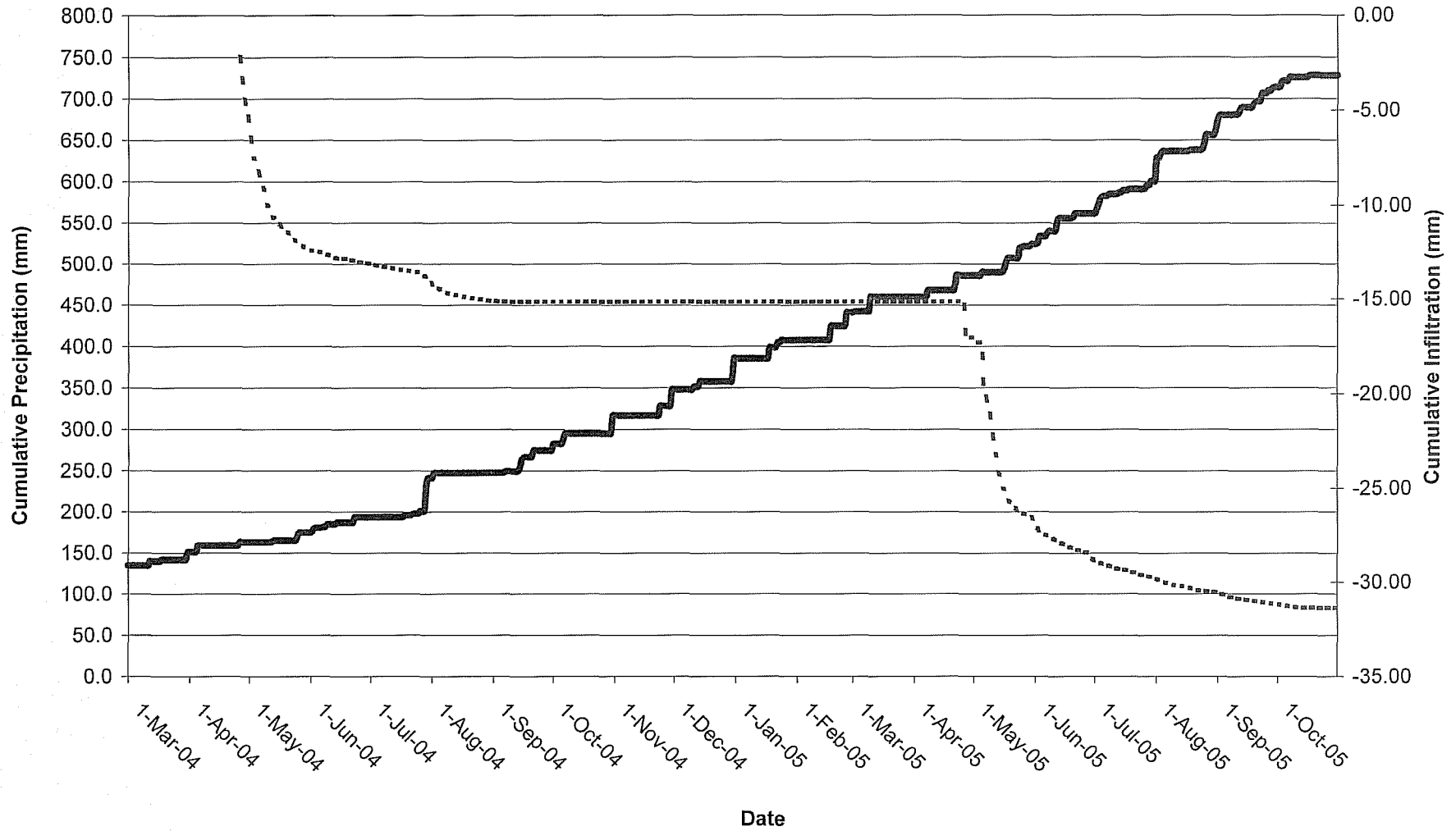


Figure 7.2
Blue WRSA Lysimeter
Soil Cover Infiltration Performance



Precip mm
 Infiltration mm

Table 7.3
Brewery Creek Mine
Blue WRSA Lysimeter Performance

Date	Snowpack H ₂ O		Cum Precip mm	Cumulative Liters	Cumulative Tank liters	Cumulative Infiltration mm	Overall % Infiltrate
	Equivalent mm	Precip mm		Precip			
1-Mar-04	133.7	1.3	135.0	13500	0.0		
2-Mar-04			135.0	13500	0.0		
3-Mar-04			135.0	13500	0.0		
4-Mar-04			135.0	13500	0.0		
5-Mar-04			135.0	13500	0.0		
6-Mar-04			135.0	13500	0.0		
7-Mar-04			135.0	13500	0.0		
8-Mar-04			135.0	13500	0.0		
9-Mar-04			135.0	13500	0.0		
10-Mar-04			135.0	13500	0.0		
11-Mar-04			135.0	13500	0.0		
12-Mar-04		5.1	140.1	14010	0.0		
13-Mar-04			140.1	14010	0.0		
14-Mar-04			140.1	14010	0.0		
15-Mar-04			140.1	14010	0.0		
16-Mar-04			140.1	14010	0.0		
17-Mar-04			140.1	14010	0.0		
18-Mar-04		1.7	141.8	14180	0.0		
19-Mar-04			141.8	14180	0.0		
20-Mar-04			141.8	14180	0.0		
21-Mar-04			141.8	14180	0.0		
22-Mar-04			141.8	14180	0.0		
23-Mar-04			141.8	14180	0.0		
24-Mar-04			141.8	14180	0.0		
25-Mar-04			141.8	14180	0.0		
26-Mar-04			141.8	14180	0.0		
27-Mar-04			141.8	14180	0.0		
28-Mar-04			141.8	14180	0.0		
29-Mar-04			141.8	14180	0.0		
30-Mar-04			141.8	14180	0.0		
31-Mar-04		9.4	151.2	15120	0.0		
1-Apr-04			151.2	15120	0.0		
2-Apr-04			151.2	15120	0.0		
3-Apr-04			151.2	15120	0.0		
4-Apr-04			151.2	15120	0.0		
5-Apr-04		7.8	159.0	15900	0.0		
6-Apr-04			159.0	15900	0.0		
7-Apr-04			159.0	15900	0.0		
8-Apr-04			159.0	15900	0.0		
9-Apr-04			159.0	15900	0.0		
10-Apr-04			159.0	15900	0.0		
11-Apr-04			159.0	15900	0.0		
12-Apr-04			159.0	15900	0.0		
13-Apr-04			159.0	15900	0.0		
14-Apr-04			159.0	15900	0.0		
15-Apr-04			159.0	15900	0.0		
16-Apr-04			159.0	15900	0.0		
17-Apr-04			159.0	15900	0.0		
18-Apr-04			159.0	15900	0.0		
19-Apr-04			159.0	15900	0.0		
20-Apr-04			159.0	15900	0.0		
21-Apr-04			159.0	15900	0.0		
22-Apr-04			159.0	15900	0.0		
23-Apr-04			159.0	15900	0.0		
24-Apr-04			159.0	15900	0.0		
25-Apr-04			159.0	15900	0.0		
26-Apr-04		4.1	163.1	16310	215.0	-2.15	1.32%
27-Apr-04			163.1	16310	320.0	-3.20	1.96%
28-Apr-04			163.1	16310	425.0	-4.25	2.61%
29-Apr-04			163.1	16310	467.5	-4.68	2.87%
30-Apr-04			163.1	16310	510.0	-5.10	3.13%
1-May-04			163.1	16310	590.0	-5.90	3.62%

Table 7.3

Lysimeter Area m²

100

Brewery Creek Mine
Blue WRSA Lysimeter Performance

Date	Snowpack H ₂ O Equivalent mm	Precip mm	Cum Precip mm	Cumulative Liters Precip	Cumulative Tank liters	Cumulative Infiltration mm	Overall % Infiltrate
2-May-04			163.1	16310	670.0	-6.70	4.11%
3-May-04			163.1	16310	750.0	-7.50	4.60%
4-May-04			163.1	16310	781.3	-7.81	4.79%
5-May-04			163.1	16310	812.5	-8.13	4.98%
6-May-04			163.1	16310	843.8	-8.44	5.17%
7-May-04			163.1	16310	875.0	-8.75	5.36%
8-May-04			163.1	16310	916.7	-9.17	5.62%
9-May-04			163.1	16310	958.3	-9.58	5.88%
10-May-04			163.1	16310	1000.0	-10.00	6.13%
11-May-04			163.1	16310	1025.0	-10.25	6.28%
12-May-04			163.1	16310	1050.0	-10.50	6.44%
13-May-04		2.0	165.1	16510	1062.3	-10.62	6.43%
14-May-04			165.1	16510	1074.7	-10.75	6.51%
15-May-04			165.1	16510	1087.0	-10.87	6.58%
16-May-04			165.1	16510	1099.3	-10.99	6.66%
17-May-04			165.1	16510	1111.6	-11.12	6.73%
18-May-04			165.1	16510	1124.0	-11.24	6.81%
19-May-04			165.1	16510	1136.3	-11.36	6.88%
20-May-04			165.1	16510	1145.6	-11.46	6.94%
21-May-04			165.1	16510	1155.0	-11.55	7.00%
22-May-04			165.1	16510	1164.3	-11.64	7.05%
23-May-04			165.1	16510	1173.6	-11.74	7.11%
24-May-04			165.1	16510	1182.9	-11.83	7.16%
25-May-04		5.5	170.6	17060	1192.3	-11.92	6.99%
26-May-04		4.0	174.6	17460	1201.6	-12.02	6.88%
27-May-04			174.6	17460	1210.9	-12.11	6.94%
28-May-04			174.6	17460	1217.5	-12.17	6.97%
29-May-04			174.6	17460	1224.1	-12.24	7.01%
30-May-04			174.6	17460	1230.6	-12.31	7.05%
31-May-04			174.6	17460	1237.2	-12.37	7.09%
1-Jun-04		0.6	175.2	17520	1238.2	-12.38	7.07%
2-Jun-04		3.4	178.6	17860	1239.2	-12.39	6.94%
3-Jun-04		2.3	180.9	18090	1240.2	-12.40	6.86%
4-Jun-04			180.9	18090	1243.3	-12.43	6.87%
5-Jun-04			180.9	18090	1246.3	-12.46	6.89%
6-Jun-04			180.9	18090	1249.4	-12.49	6.91%
7-Jun-04		1.0	181.9	18190	1252.4	-12.52	6.89%
8-Jun-04			181.9	18190	1256.7	-12.57	6.91%
9-Jun-04		2.8	184.7	18470	1261.0	-12.61	6.83%
10-Jun-04			184.7	18470	1265.3	-12.65	6.85%
11-Jun-04		0.5	185.2	18520	1269.6	-12.70	6.86%
12-Jun-04			185.2	18520	1273.1	-12.73	6.87%
13-Jun-04			185.2	18520	1276.7	-12.77	6.89%
14-Jun-04		2.0	187.2	18720	1280.2	-12.80	6.84%
15-Jun-04			187.2	18720	1280.8	-12.81	6.84%
16-Jun-04			187.2	18720	1281.4	-12.81	6.85%
17-Jun-04			187.2	18720	1282.0	-12.82	6.85%
18-Jun-04			187.2	18720	1282.6	-12.83	6.85%
19-Jun-04			187.2	18720	1284.5	-12.85	6.86%
20-Jun-04			187.2	18720	1286.4	-12.86	6.87%
21-Jun-04			187.2	18720	1288.3	-12.88	6.88%
22-Jun-04			187.2	18720	1291.4	-12.91	6.90%
23-Jun-04		6.5	193.7	19370	1294.4	-12.94	6.68%
24-Jun-04			193.7	19370	1297.5	-12.97	6.70%
25-Jun-04			193.7	19370	1300.5	-13.01	6.71%
26-Jun-04			193.7	19370	1301.2	-13.01	6.72%
27-Jun-04			193.7	19370	1301.9	-13.02	6.72%
28-Jun-04			193.7	19370	1302.5	-13.03	6.72%
29-Jun-04			193.7	19370	1305.2	-13.05	6.74%
30-Jun-04			193.7	19370	1307.9	-13.08	6.75%
1-Jul-04			193.7	19370	1310.6	-13.11	6.77%
2-Jul-04			193.7	19370	1313.2	-13.13	6.78%

Table 7.3
Brewery Creek Mine
Blue WRSA Lysimeter Performance

Lysimeter Area m²

100

Date	Snowpack H ₂ O		Cumulative Liters Precip	Cumulative Tank liters	Cumulative Infiltration mm	Overall % Infiltrate	
	Equivalent mm	Precip mm					Cum Precip mm
3-Jul-04			193.7	19370	1315.9	-13.16	6.79%
4-Jul-04			193.7	19370	1318.6	-13.19	6.81%
5-Jul-04			193.7	19370	1321.3	-13.21	6.82%
6-Jul-04			193.7	19370	1323.2	-13.23	6.83%
7-Jul-04			193.7	19370	1325.1	-13.25	6.84%
8-Jul-04			193.7	19370	1327.0	-13.27	6.85%
9-Jul-04			193.7	19370	1328.9	-13.29	6.86%
10-Jul-04			193.7	19370	1330.8	-13.31	6.87%
11-Jul-04			193.7	19370	1332.7	-13.33	6.88%
12-Jul-04			193.7	19370	1334.6	-13.35	6.89%
13-Jul-04			193.7	19370	1336.5	-13.37	6.90%
14-Jul-04			193.7	19370	1338.4	-13.38	6.91%
15-Jul-04			193.7	19370	1339.9	-13.40	6.92%
16-Jul-04			193.7	19370	1341.4	-13.41	6.92%
17-Jul-04			193.7	19370	1342.8	-13.43	6.93%
18-Jul-04		2.0	195.7	19570	1344.3	-13.44	6.87%
19-Jul-04			195.7	19570	1345.8	-13.46	6.88%
20-Jul-04			195.7	19570	1347.6	-13.48	6.89%
21-Jul-04			195.7	19570	1349.5	-13.49	6.90%
22-Jul-04		1.6	197.3	19730	1351.3	-13.51	6.85%
23-Jul-04		0.6	197.9	19790	1353.1	-13.53	6.84%
24-Jul-04			197.9	19790	1353.9	-13.54	6.84%
25-Jul-04			197.9	19790	1354.7	-13.55	6.85%
26-Jul-04		3.0	200.9	20090	1355.5	-13.56	6.75%
27-Jul-04			200.9	20090	1365.8	-13.66	6.80%
28-Jul-04			200.9	20090	1376.1	-13.76	6.85%
29-Jul-04		32.0	232.9	23290	1386.4	-13.86	5.95%
30-Jul-04		8.4	241.3	24130	1396.8	-13.97	5.79%
31-Jul-04			241.3	24130	1407.1	-14.07	5.83%
1-Aug-04			241.3	24130	1417.4	-14.17	5.87%
2-Aug-04		6.4	247.7	24770	1427.7	-14.28	5.76%
3-Aug-04			247.7	24770	1433.5	-14.33	5.79%
4-Aug-04			247.7	24770	1439.2	-14.39	5.81%
5-Aug-04			247.7	24770	1445.0	-14.45	5.83%
6-Aug-04			247.7	24770	1450.8	-14.51	5.86%
7-Aug-04			247.7	24770	1456.6	-14.57	5.88%
8-Aug-04			247.7	24770	1462.3	-14.62	5.90%
9-Aug-04			247.7	24770	1468.1	-14.68	5.93%
10-Aug-04			247.7	24770	1470.2	-14.70	5.94%
11-Aug-04			247.7	24770	1472.3	-14.72	5.94%
12-Aug-04			247.7	24770	1474.3	-14.74	5.95%
13-Aug-04			247.7	24770	1476.4	-14.76	5.96%
14-Aug-04			247.7	24770	1478.8	-14.79	5.97%
15-Aug-04			247.7	24770	1481.3	-14.81	5.98%
16-Aug-04			247.7	24770	1483.7	-14.84	5.99%
17-Aug-04			247.7	24770	1486.1	-14.86	6.00%
18-Aug-04			247.7	24770	1487.8	-14.88	6.01%
19-Aug-04			247.7	24770	1489.6	-14.90	6.01%
20-Aug-04			247.7	24770	1491.3	-14.91	6.02%
21-Aug-04			247.7	24770	1492.8	-14.93	6.03%
22-Aug-04			247.7	24770	1494.2	-14.94	6.03%
23-Aug-04			247.7	24770	1495.7	-14.96	6.04%
24-Aug-04			247.7	24770	1497.2	-14.97	6.04%
25-Aug-04			247.7	24770	1498.8	-14.99	6.05%
26-Aug-04			247.7	24770	1500.3	-15.00	6.06%
27-Aug-04			247.7	24770	1501.8	-15.02	6.06%
28-Aug-04			247.7	24770	1503.6	-15.04	6.07%
29-Aug-04			247.7	24770	1505.3	-15.05	6.08%
30-Aug-04			247.7	24770	1507.1	-15.07	6.08%
31-Aug-04			247.7	24770	1507.6	-15.08	6.09%
1-Sep-04			247.7	24770	1508.0	-15.08	6.09%
2-Sep-04			247.7	24770	1508.5	-15.08	6.09%

Table 7.3

Lysimeter Area m²

100

Brewery Creek Mine
Blue WRSA Lysimeter Performance

Date	Snowpack H ₂ O		Cum Precip mm	Cumulative Liters		Cumulative Tank liters	Cumulative Infiltration mm	Overall % Infiltrate
	Equivalent mm	Precip mm		Precip				
3-Sep-04			247.7	24770	1508.9	-15.09	6.09%	
4-Sep-04			247.7	24770	1509.3	-15.09	6.09%	
5-Sep-04			247.7	24770	1509.8	-15.10	6.10%	
6-Sep-04			247.7	24770	1510.2	-15.10	6.10%	
7-Sep-04		2.0	249.7	24970	1510.6	-15.11	6.05%	
8-Sep-04			249.7	24970	1510.6	-15.11	6.05%	
9-Sep-04			249.7	24970	1510.6	-15.11	6.05%	
10-Sep-04			249.7	24970	1510.6	-15.11	6.05%	
11-Sep-04			249.7	24970	1510.6	-15.11	6.05%	
12-Sep-04			249.7	24970	1510.6	-15.11	6.05%	
13-Sep-04			249.7	24970	1510.6	-15.11	6.05%	
14-Sep-04		3.0	252.7	25270	1510.6	-15.11	5.98%	
15-Sep-04		11.0	263.7	26370	1510.6	-15.11	5.73%	
16-Sep-04		2.5	266.2	26620	1510.6	-15.11	5.67%	
17-Sep-04		1.0	267.2	26720	1510.6	-15.11	5.65%	
18-Sep-04			267.2	26720	1510.6	-15.11	5.65%	
19-Sep-04			267.2	26720	1510.6	-15.11	5.65%	
20-Sep-04			267.2	26720	1510.6	-15.11	5.65%	
21-Sep-04		7.5	274.7	27470	1510.6	-15.11	5.50%	
22-Sep-04			274.7	27470	1510.6	-15.11	5.50%	
23-Sep-04			274.7	27470	1510.6	-15.11	5.50%	
24-Sep-04			274.7	27470	1510.6	-15.11	5.50%	
25-Sep-04			274.7	27470	1510.6	-15.11	5.50%	
26-Sep-04			274.7	27470	1510.6	-15.11	5.50%	
27-Sep-04			274.7	27470	1510.6	-15.11	5.50%	
28-Sep-04			274.7	27470	1510.6	-15.11	5.50%	
29-Sep-04			274.7	27470	1510.6	-15.11	5.50%	
30-Sep-04			274.7	27470	1510.6	-15.11	5.50%	
1-Oct-04		8.5	283.2	28320	1510.6	-15.11	5.33%	
2-Oct-04			283.2	28320	1510.6	-15.11	5.33%	
3-Oct-04			283.2	28320	1510.6	-15.11	5.33%	
4-Oct-04			283.2	28320	1510.6	-15.11	5.33%	
5-Oct-04			283.2	28320	1510.6	-15.11	5.33%	
6-Oct-04		5.5	288.7	28870	1510.6	-15.11	5.23%	
7-Oct-04		7.0	295.7	29570	1510.6	-15.11	5.11%	
8-Oct-04			295.7	29570	1510.6	-15.11	5.11%	
9-Oct-04			295.7	29570	1510.6	-15.11	5.11%	
10-Oct-04			295.7	29570	1510.6	-15.11	5.11%	
11-Oct-04			295.7	29570	1510.6	-15.11	5.11%	
12-Oct-04			295.7	29570	1510.6	-15.11	5.11%	
13-Oct-04			295.7	29570	1510.6	-15.11	5.11%	
14-Oct-04			295.7	29570	1510.6	-15.11	5.11%	
15-Oct-04			295.7	29570	1510.6	-15.11	5.11%	
16-Oct-04			295.7	29570	1510.6	-15.11	5.11%	
17-Oct-04			295.7	29570	1510.6	-15.11	5.11%	
18-Oct-04			295.7	29570	1510.6	-15.11	5.11%	
19-Oct-04			295.7	29570	1510.6	-15.11	5.11%	
20-Oct-04			295.7	29570	1510.6	-15.11	5.11%	
21-Oct-04			295.7	29570	1510.6	-15.11	5.11%	
22-Oct-04			295.7	29570	1510.6	-15.11	5.11%	
23-Oct-04			295.7	29570	1510.6	-15.11	5.11%	
24-Oct-04			295.7	29570	1510.6	-15.11	5.11%	
25-Oct-04			295.7	29570	1510.6	-15.11	5.11%	
26-Oct-04			295.7	29570	1510.6	-15.11	5.11%	
27-Oct-04			295.7	29570	1510.6	-15.11	5.11%	
28-Oct-04			295.7	29570	1510.6	-15.11	5.11%	
29-Oct-04			295.7	29570	1510.6	-15.11	5.11%	
30-Oct-04			295.7	29570	1510.6	-15.11	5.11%	
31-Oct-04		22.0	317.7	31770	1510.6	-15.11	4.75%	
1-Nov-04			317.7	31770	1510.6	-15.11	4.75%	
2-Nov-04			317.7	31770	1510.6	-15.11	4.75%	
3-Nov-04			317.7	31770	1510.6	-15.11	4.75%	

Table 7.3
Brewery Creek Mine
Blue WRSA Lysimeter Performance

Lysimeter Area m²

100

Date	Snowpack H ₂ O		Cum Precip mm	Cumulative Liters		Cumulative Tank liters	Cumulative Infiltration mm	Overall % Infiltrate
	Equivalent mm	Precip mm		Precip				
4-Nov-04			317.7	31770	1510.6	-15.11	4.75%	
5-Nov-04			317.7	31770	1510.6	-15.11	4.75%	
6-Nov-04			317.7	31770	1510.6	-15.11	4.75%	
7-Nov-04			317.7	31770	1510.6	-15.11	4.75%	
8-Nov-04			317.7	31770	1510.6	-15.11	4.75%	
9-Nov-04			317.7	31770	1510.6	-15.11	4.75%	
10-Nov-04			317.7	31770	1510.6	-15.11	4.75%	
11-Nov-04			317.7	31770	1510.6	-15.11	4.75%	
12-Nov-04			317.7	31770	1510.6	-15.11	4.75%	
13-Nov-04			317.7	31770	1510.6	-15.11	4.75%	
14-Nov-04			317.7	31770	1510.6	-15.11	4.75%	
15-Nov-04			317.7	31770	1510.6	-15.11	4.75%	
16-Nov-04			317.7	31770	1510.6	-15.11	4.75%	
17-Nov-04			317.7	31770	1510.6	-15.11	4.75%	
18-Nov-04			317.7	31770	1510.6	-15.11	4.75%	
19-Nov-04			317.7	31770	1510.6	-15.11	4.75%	
20-Nov-04			317.7	31770	1510.6	-15.11	4.75%	
21-Nov-04			317.7	31770	1510.6	-15.11	4.75%	
22-Nov-04			317.7	31770	1510.6	-15.11	4.75%	
23-Nov-04			317.7	31770	1510.6	-15.11	4.75%	
24-Nov-04		11.5	329.2	32920	1510.6	-15.11	4.59%	
25-Nov-04			329.2	32920	1510.6	-15.11	4.59%	
26-Nov-04			329.2	32920	1510.6	-15.11	4.59%	
27-Nov-04			329.2	32920	1510.6	-15.11	4.59%	
28-Nov-04			329.2	32920	1510.6	-15.11	4.59%	
29-Nov-04			329.2	32920	1510.6	-15.11	4.59%	
30-Nov-04		19.5	348.7	34870	1510.6	-15.11	4.33%	
1-Dec-04			348.7	34870	1510.6	-15.11	4.33%	
2-Dec-04			348.7	34870	1510.6	-15.11	4.33%	
3-Dec-04			348.7	34870	1510.6	-15.11	4.33%	
4-Dec-04			348.7	34870	1510.6	-15.11	4.33%	
5-Dec-04			348.7	34870	1510.6	-15.11	4.33%	
6-Dec-04			348.7	34870	1510.6	-15.11	4.33%	
7-Dec-04			348.7	34870	1510.6	-15.11	4.33%	
8-Dec-04			348.7	34870	1510.6	-15.11	4.33%	
9-Dec-04			348.7	34870	1510.6	-15.11	4.33%	
10-Dec-04			348.7	34870	1510.6	-15.11	4.33%	
11-Dec-04		3.7	352.4	35240	1510.6	-15.11	4.29%	
12-Dec-04			352.4	35240	1510.6	-15.11	4.29%	
13-Dec-04			352.4	35240	1510.6	-15.11	4.29%	
14-Dec-04		6.4	358.8	35880	1510.6	-15.11	4.21%	
15-Dec-04			358.8	35880	1510.6	-15.11	4.21%	
16-Dec-04			358.8	35880	1510.6	-15.11	4.21%	
17-Dec-04			358.8	35880	1510.6	-15.11	4.21%	
18-Dec-04			358.8	35880	1510.6	-15.11	4.21%	
19-Dec-04			358.8	35880	1510.6	-15.11	4.21%	
20-Dec-04			358.8	35880	1510.6	-15.11	4.21%	
21-Dec-04			358.8	35880	1510.6	-15.11	4.21%	
22-Dec-04			358.8	35880	1510.6	-15.11	4.21%	
23-Dec-04			358.8	35880	1510.6	-15.11	4.21%	
24-Dec-04			358.8	35880	1510.6	-15.11	4.21%	
25-Dec-04			358.8	35880	1510.6	-15.11	4.21%	
26-Dec-04			358.8	35880	1510.6	-15.11	4.21%	
27-Dec-04			358.8	35880	1510.6	-15.11	4.21%	
28-Dec-04			358.8	35880	1510.6	-15.11	4.21%	
29-Dec-04			358.8	35880	1510.6	-15.11	4.21%	
30-Dec-04			358.8	35880	1510.6	-15.11	4.21%	
31-Dec-04		27.0	385.8	38580	1510.6	-15.11	3.92%	
1-Jan-05			385.8	38580	1510.6	-15.11	3.92%	
2-Jan-05			385.8	38580	1510.6	-15.11	3.92%	
3-Jan-05			385.8	38580	1510.6	-15.11	3.92%	
4-Jan-05			385.8	38580	1510.6	-15.11	3.92%	

Table 7.3

Lysimeter Area m²

100

Brewery Creek Mine
Blue WRSA Lysimeter Performance

Date	Snowpack H ₂ O		Cum Precip mm	Cumulative Liters		Cumulative Tank liters	Cumulative Infiltration mm	Overall % Infiltrate
	Equivalent mm	Precip mm		Precip				
5-Jan-05			385.8	38580	1510.6	-15.11	3.92%	
6-Jan-05			385.8	38580	1510.6	-15.11	3.92%	
7-Jan-05			385.8	38580	1510.6	-15.11	3.92%	
8-Jan-05			385.8	38580	1510.6	-15.11	3.92%	
9-Jan-05			385.8	38580	1510.6	-15.11	3.92%	
10-Jan-05			385.8	38580	1510.6	-15.11	3.92%	
11-Jan-05			385.8	38580	1510.6	-15.11	3.92%	
12-Jan-05			385.8	38580	1510.6	-15.11	3.92%	
13-Jan-05			385.8	38580	1510.6	-15.11	3.92%	
14-Jan-05			385.8	38580	1510.6	-15.11	3.92%	
15-Jan-05			385.8	38580	1510.6	-15.11	3.92%	
16-Jan-05			385.8	38580	1510.6	-15.11	3.92%	
17-Jan-05			385.8	38580	1510.6	-15.11	3.92%	
18-Jan-05		13.0	398.8	39880	1510.6	-15.11	3.79%	
19-Jan-05			398.8	39880	1510.6	-15.11	3.79%	
20-Jan-05			398.8	39880	1510.6	-15.11	3.79%	
21-Jan-05			398.8	39880	1510.6	-15.11	3.79%	
22-Jan-05		6.1	404.9	40490	1510.6	-15.11	3.73%	
23-Jan-05			404.9	40490	1510.6	-15.11	3.73%	
24-Jan-05		3.3	408.2	40820	1510.6	-15.11	3.70%	
25-Jan-05			408.2	40820	1510.6	-15.11	3.70%	
26-Jan-05			408.2	40820	1510.6	-15.11	3.70%	
27-Jan-05			408.2	40820	1510.6	-15.11	3.70%	
28-Jan-05			408.2	40820	1510.6	-15.11	3.70%	
29-Jan-05			408.2	40820	1510.6	-15.11	3.70%	
30-Jan-05			408.2	40820	1510.6	-15.11	3.70%	
31-Jan-05			408.2	40820	1510.6	-15.11	3.70%	
1-Feb-05			408.2	40820	1510.6	-15.11	3.70%	
2-Feb-05			408.2	40820	1510.6	-15.11	3.70%	
3-Feb-05			408.2	40820	1510.6	-15.11	3.70%	
4-Feb-05			408.2	40820	1510.6	-15.11	3.70%	
5-Feb-05			408.2	40820	1510.6	-15.11	3.70%	
6-Feb-05			408.2	40820	1510.6	-15.11	3.70%	
7-Feb-05			408.2	40820	1510.6	-15.11	3.70%	
8-Feb-05			408.2	40820	1510.6	-15.11	3.70%	
9-Feb-05			408.2	40820	1510.6	-15.11	3.70%	
10-Feb-05			408.2	40820	1510.6	-15.11	3.70%	
11-Feb-05			408.2	40820	1510.6	-15.11	3.70%	
12-Feb-05			408.2	40820	1510.6	-15.11	3.70%	
13-Feb-05			408.2	40820	1510.6	-15.11	3.70%	
14-Feb-05			408.2	40820	1510.6	-15.11	3.70%	
15-Feb-05			408.2	40820	1510.6	-15.11	3.70%	
16-Feb-05			408.2	40820	1510.6	-15.11	3.70%	
17-Feb-05			408.2	40820	1510.6	-15.11	3.70%	
18-Feb-05		16.9	425.1	42510	1510.6	-15.11	3.55%	
19-Feb-05			425.1	42510	1510.6	-15.11	3.55%	
20-Feb-05			425.1	42510	1510.6	-15.11	3.55%	
21-Feb-05			425.1	42510	1510.6	-15.11	3.55%	
22-Feb-05			425.1	42510	1510.6	-15.11	3.55%	
23-Feb-05			425.1	42510	1510.6	-15.11	3.55%	
24-Feb-05			425.1	42510	1510.6	-15.11	3.55%	
25-Feb-05			425.1	42510	1510.6	-15.11	3.55%	
26-Feb-05		16.3	441.4	44135	1510.6	-15.11	3.42%	
27-Feb-05			441.4	44135	1510.6	-15.11	3.42%	
28-Feb-05			441.4	44135	1510.6	-15.11	3.42%	
1-Mar-05			441.4	44135	1510.6	-15.11	3.42%	
2-Mar-05		1.3	442.6	44260	1510.6	-15.11	3.41%	
3-Mar-05			442.6	44260	1510.6	-15.11	3.41%	
4-Mar-05			442.6	44260	1510.6	-15.11	3.41%	
5-Mar-05			442.6	44260	1510.6	-15.11	3.41%	
6-Mar-05			442.6	44260	1510.6	-15.11	3.41%	
7-Mar-05			442.6	44260	1510.6	-15.11	3.41%	

Table 7.3
Brewery Creek Mine
Blue WRSA Lysimeter Performance

Lysimeter Area m²

100

Date	Snowpack H ₂ O		Cum Precip mm	Cumulative Liters		Cumulative Infiltration mm	Overall % Infiltrate
	Equivalent mm	Precip mm		Precip	Tank liters		
8-Mar-05			442.6	44260	1510.6	-15.11	3.41%
9-Mar-05			442.6	44260	1510.6	-15.11	3.41%
10-Mar-05		17.6	460.2	46020	1510.6	-15.11	3.28%
11-Mar-05			460.2	46020	1510.6	-15.11	3.28%
12-Mar-05			460.2	46020	1510.6	-15.11	3.28%
13-Mar-05			460.2	46020	1510.6	-15.11	3.28%
14-Mar-05			460.2	46020	1510.6	-15.11	3.28%
15-Mar-05			460.2	46020	1510.6	-15.11	3.28%
16-Mar-05			460.2	46020	1510.6	-15.11	3.28%
17-Mar-05			460.2	46020	1510.6	-15.11	3.28%
18-Mar-05			460.2	46020	1510.6	-15.11	3.28%
19-Mar-05			460.2	46020	1510.6	-15.11	3.28%
20-Mar-05			460.2	46020	1510.6	-15.11	3.28%
21-Mar-05			460.2	46020	1510.6	-15.11	3.28%
22-Mar-05			460.2	46020	1510.6	-15.11	3.28%
23-Mar-05			460.2	46020	1510.6	-15.11	3.28%
24-Mar-05			460.2	46020	1510.6	-15.11	3.28%
25-Mar-05			460.2	46020	1510.6	-15.11	3.28%
26-Mar-05			460.2	46020	1510.6	-15.11	3.28%
27-Mar-05			460.2	46020	1510.6	-15.11	3.28%
28-Mar-05			460.2	46020	1510.6	-15.11	3.28%
29-Mar-05			460.2	46020	1510.6	-15.11	3.28%
30-Mar-05			460.2	46020	1510.6	-15.11	3.28%
31-Mar-05			460.2	46020	1510.6	-15.11	3.28%
1-Apr-05			460.2	46020	1510.6	-15.11	3.28%
2-Apr-05			460.2	46020	1510.6	-15.11	3.28%
3-Apr-05			460.2	46020	1510.6	-15.11	3.28%
4-Apr-05			460.2	46020	1510.6	-15.11	3.28%
5-Apr-05			460.2	46020	1510.6	-15.11	3.28%
6-Apr-05			460.2	46020	1510.6	-15.11	3.28%
7-Apr-05			460.2	46020	1510.6	-15.11	3.28%
8-Apr-05		8.0	468.2	46820	1510.6	-15.11	3.23%
9-Apr-05			468.2	46820	1510.6	-15.11	3.23%
10-Apr-05			468.2	46820	1510.6	-15.11	3.23%
11-Apr-05			468.2	46820	1510.6	-15.11	3.23%
12-Apr-05			468.2	46820	1510.6	-15.11	3.23%
13-Apr-05			468.2	46820	1510.6	-15.11	3.23%
14-Apr-05			468.2	46820	1510.6	-15.11	3.23%
15-Apr-05			468.2	46820	1510.6	-15.11	3.23%
16-Apr-05			468.2	46820	1510.6	-15.11	3.23%
17-Apr-05			468.2	46820	1510.6	-15.11	3.23%
18-Apr-05			468.2	46820	1510.6	-15.11	3.23%
19-Apr-05			468.2	46820	1510.6	-15.11	3.23%
20-Apr-05			468.2	46820	1510.6	-15.11	3.23%
21-Apr-05			468.2	46820	1510.6	-15.11	3.23%
22-Apr-05		18.0	486.2	48620	1510.6	-15.11	3.11%
23-Apr-05			486.2	48620	1510.6	-15.11	3.11%
24-Apr-05			486.2	48620	1510.6	-15.11	3.11%
25-Apr-05			486.2	48620	1510.6	-15.11	3.11%
26-Apr-05			486.2	48620	1510.6	-15.11	3.11%
27-Apr-05			486.2	48620	1700.6	-17.01	3.50%
28-Apr-05			486.2	48620	1700.6	-17.01	3.50%
29-Apr-05			486.2	48620	1700.6	-17.01	3.50%
30-Apr-05			486.2	48620	1700.6	-17.01	3.50%
1-May-05			486.2	48620	1700.6	-17.01	3.50%
2-May-05			486.2	48620	1700.6	-17.01	3.50%
3-May-05			486.2	48620	1726.8	-17.27	3.55%
4-May-05			486.2	48620	1726.8	-17.27	3.55%
5-May-05		4.0	490.2	49020	1726.8	-17.27	3.52%
6-May-05			490.2	49020	1962.2	-19.62	4.00%
7-May-05			490.2	49020	2005.8	-20.06	4.09%
8-May-05			490.2	49020	2049.4	-20.49	4.18%

Table 7.3
Brewery Creek Mine
Blue WRSA Lysimeter Performance

Date	Snowpack H ₂ O		Cum Precip mm	Cumulative Liters		Cumulative Tank liters	Cumulative Infiltration mm	Overall % Infiltrate
	Equivalent mm	Precip mm		Precip				
9-May-05			490.2	49020	2093.0	-20.93	4.27%	
10-May-05			490.2	49020	2171.5	-21.72	4.43%	
11-May-05			490.2	49020	2250.0	-22.50	4.59%	
12-May-05			490.2	49020	2315.4	-23.15	4.72%	
13-May-05			490.2	49020	2387.4	-23.87	4.87%	
14-May-05			490.2	49020	2424.8	-24.25	4.95%	
15-May-05			490.2	49020	2462.2	-24.62	5.02%	
16-May-05		3.0	493.2	49320	2499.6	-25.00	5.07%	
17-May-05		8.0	501.2	50120	2537.8	-25.38	5.06%	
18-May-05		6.0	507.2	50720	2550.9	-25.51	5.03%	
19-May-05			507.2	50720	2570.5	-25.70	5.07%	
20-May-05			507.2	50720	2583.6	-25.84	5.09%	
21-May-05			507.2	50720	2595.0	-25.95	5.12%	
22-May-05			507.2	50720	2606.5	-26.06	5.14%	
23-May-05			507.2	50720	2617.9	-26.18	5.16%	
24-May-05		12.5	519.7	51970	2629.4	-26.29	5.06%	
25-May-05			519.7	51970	2631.6	-26.32	5.06%	
26-May-05		2.0	521.7	52170	2633.8	-26.34	5.05%	
27-May-05			521.7	52170	2636.0	-26.36	5.05%	
28-May-05			521.7	52170	2642.0	-26.42	5.06%	
29-May-05			521.7	52170	2648.0	-26.48	5.08%	
30-May-05		2.4	524.1	52410	2654.0	-26.54	5.06%	
31-May-05			524.1	52410	2673.5	-26.73	5.10%	
1-Jun-05			524.1	52410	2692.9	-26.93	5.14%	
2-Jun-05		1.4	525.5	52550	2712.4	-27.12	5.16%	
3-Jun-05		7.9	533.4	53340	2731.8	-27.32	5.12%	
4-Jun-05			533.4	53340	2737.0	-27.37	5.13%	
5-Jun-05			533.4	53340	2742.1	-27.42	5.14%	
6-Jun-05		0.8	534.2	53420	2747.3	-27.47	5.14%	
7-Jun-05		3.0	537.2	53720	2752.4	-27.52	5.12%	
8-Jun-05		3.0	540.2	54020	2757.6	-27.58	5.10%	
9-Jun-05			540.2	54020	2762.7	-27.63	5.11%	
10-Jun-05			540.2	54020	2767.9	-27.68	5.12%	
11-Jun-05			540.2	54020	2773.0	-27.73	5.13%	
12-Jun-05		12.5	552.7	55270	2778.2	-27.78	5.03%	
13-Jun-05		3.5	556.2	55620	2783.3	-27.83	5.00%	
14-Jun-05			556.2	55620	2788.5	-27.88	5.01%	
15-Jun-05			556.2	55620	2793.6	-27.94	5.02%	
16-Jun-05			556.2	55620	2798.8	-27.99	5.03%	
17-Jun-05			556.2	55620	2803.9	-28.04	5.04%	
18-Jun-05			556.2	55620	2809.1	-28.09	5.05%	
19-Jun-05			556.2	55620	2814.2	-28.14	5.06%	
20-Jun-05		1.0	557.2	55720	2819.4	-28.19	5.06%	
21-Jun-05		4.5	561.7	56170	2822.3	-28.22	5.02%	
22-Jun-05			561.7	56170	2825.2	-28.25	5.03%	
23-Jun-05			561.7	56170	2828.2	-28.28	5.04%	
24-Jun-05			561.7	56170	2831.1	-28.31	5.04%	
25-Jun-05			561.7	56170	2834.1	-28.34	5.05%	
26-Jun-05			561.7	56170	2837.0	-28.37	5.05%	
27-Jun-05			561.7	56170	2840.0	-28.40	5.06%	
28-Jun-05			561.7	56170	2851.5	-28.52	5.08%	
29-Jun-05			561.7	56170	2863.1	-28.63	5.10%	
30-Jun-05			561.7	56170	2874.7	-28.75	5.12%	
1-Jul-05			561.7	56170	2886.3	-28.86	5.14%	
2-Jul-05		6.0	567.7	56770	2889.7	-28.90	5.09%	
3-Jul-05		6.5	574.2	57420	2893.2	-28.93	5.04%	
4-Jul-05		6.5	580.7	58070	2896.6	-28.97	4.99%	
5-Jul-05		2.0	582.7	58270	2900.0	-29.00	4.98%	
6-Jul-05			582.7	58270	2903.5	-29.03	4.98%	
7-Jul-05			582.7	58270	2906.9	-29.07	4.99%	
8-Jul-05		2.0	584.7	58470	2910.3	-29.10	4.98%	
9-Jul-05			584.7	58470	2913.8	-29.14	4.98%	

Table 7.3
Brewery Creek Mine
Blue WRSA Lysimeter Performance

Lysimeter Area m²

100

Date	Snowpack H ₂ O		Cum Precip mm	Cumulative Liters		Cumulative Tank liters	Cumulative Infiltration mm	Overall % Infiltrate
	Equivalent mm	Precip mm		Precip				
10-Jul-05			584.7	58470	2917.2	-29.17	4.99%	
11-Jul-05			584.7	58470	2920.6	-29.21	5.00%	
12-Jul-05			584.7	58470	2924.1	-29.24	5.00%	
13-Jul-05		2.0	586.7	58670	2927.5	-29.28	4.99%	
14-Jul-05			586.7	58670	2930.9	-29.31	5.00%	
15-Jul-05		2.6	589.3	58930	2927.5	-29.28	4.97%	
16-Jul-05			589.3	58930	2930.6	-29.31	4.97%	
17-Jul-05			589.3	58930	2933.7	-29.34	4.98%	
18-Jul-05		1.4	590.7	59070	2936.8	-29.37	4.97%	
19-Jul-05			590.7	59070	2939.9	-29.40	4.98%	
20-Jul-05			590.7	59070	2943.0	-29.43	4.98%	
21-Jul-05			590.7	59070	2946.0	-29.46	4.99%	
22-Jul-05			590.7	59070	2949.1	-29.49	4.99%	
23-Jul-05			590.7	59070	2952.2	-29.52	5.00%	
24-Jul-05			590.7	59070	2955.3	-29.55	5.00%	
25-Jul-05		0.7	591.4	59140	2958.4	-29.58	5.00%	
26-Jul-05		0.3	591.7	59170	2961.3	-29.61	5.00%	
27-Jul-05		3.9	595.6	59560	2963.9	-29.64	4.98%	
28-Jul-05			595.6	59560	2966.0	-29.66	4.98%	
29-Jul-05		5.0	600.6	60060	2967.9	-29.68	4.94%	
30-Jul-05			600.6	60060	2969.5	-29.69	4.94%	
31-Jul-05			600.6	60060	2970.8	-29.71	4.95%	
1-Aug-05		28.0	628.6	62860	2979.0	-29.79	4.74%	
2-Aug-05			628.6	62860	2983.4	-29.83	4.75%	
3-Aug-05		4.0	632.6	63260	2987.8	-29.88	4.72%	
4-Aug-05		3.8	636.4	63640	2992.2	-29.92	4.70%	
5-Aug-05			636.4	63640	2996.7	-29.97	4.71%	
6-Aug-05			636.4	63640	3001.1	-30.01	4.72%	
7-Aug-05			636.4	63640	3005.5	-30.05	4.72%	
8-Aug-05		0.5	636.9	63690	3009.9	-30.10	4.73%	
9-Aug-05			636.9	63690	3011.4	-30.11	4.73%	
10-Aug-05			636.9	63690	3012.8	-30.13	4.73%	
11-Aug-05			636.9	63690	3014.3	-30.14	4.73%	
12-Aug-05			636.9	63690	3015.8	-30.16	4.74%	
13-Aug-05			636.9	63690	3017.3	-30.17	4.74%	
14-Aug-05			636.9	63690	3018.7	-30.19	4.74%	
15-Aug-05			636.9	63690	3020.2	-30.20	4.74%	
16-Aug-05			636.9	63690	3023.1	-30.23	4.75%	
17-Aug-05			636.9	63690	3026.1	-30.26	4.75%	
18-Aug-05		1.0	637.9	63790	3029.0	-30.29	4.75%	
19-Aug-05			637.9	63790	3032.0	-30.32	4.75%	
20-Aug-05			637.9	63790	3034.9	-30.35	4.76%	
21-Aug-05			637.9	63790	3037.9	-30.38	4.76%	
22-Aug-05			637.9	63790	3040.8	-30.41	4.77%	
23-Aug-05			637.9	63790	3041.9	-30.42	4.77%	
24-Aug-05		1.0	638.9	63890	3043.1	-30.43	4.76%	
25-Aug-05		7.0	645.9	64590	3044.2	-30.44	4.71%	
26-Aug-05		10.2	656.1	65610	3045.4	-30.45	4.64%	
27-Aug-05			656.1	65610	3046.5	-30.47	4.64%	
28-Aug-05			656.1	65610	3047.7	-30.48	4.65%	
29-Aug-05			656.1	65610	3048.8	-30.49	4.65%	
30-Aug-05			656.1	65610	3050.0	-30.50	4.65%	
31-Aug-05		8.2	664.3	66430	3051.1	-30.51	4.59%	
1-Sep-05		10.4	674.7	67470	3054.4	-30.54	4.53%	
2-Sep-05		5.0	679.7	67970	3057.8	-30.58	4.50%	
3-Sep-05			679.7	67970	3061.1	-30.61	4.50%	
4-Sep-05			679.7	67970	3064.4	-30.64	4.51%	
5-Sep-05			679.7	67970	3067.8	-30.68	4.51%	
6-Sep-05			679.7	67970	3071.1	-30.71	4.52%	
7-Sep-05		0.5	680.2	68020	3074.4	-30.74	4.52%	
8-Sep-05			680.2	68020	3077.8	-30.78	4.52%	
9-Sep-05		0.5	680.7	68070	3081.1	-30.81	4.53%	

Table 7.3

Lysimeter Area m²

100

Brewery Creek Mine
Blue WRSA Lysimeter Performance

Date	Snowpack H ₂ O Equivalent mm	Precip mm	Cum Precip mm	Cumulative Liters Precip	Cumulative Tank liters	Cumulative Infiltration mm	Overall % Infiltrate
10-Sep-05			680.7	68070	3082.7	-30.83	4.53%
11-Sep-05			680.7	68070	3084.2	-30.84	4.53%
12-Sep-05		4.5	685.2	68520	3085.8	-30.86	4.50%
13-Sep-05		4.0	689.2	68920	3087.3	-30.87	4.48%
14-Sep-05			689.2	68920	3088.9	-30.89	4.48%
15-Sep-05			689.2	68920	3090.5	-30.90	4.48%
16-Sep-05		0.2	689.4	68940	3092.0	-30.92	4.49%
17-Sep-05			689.4	68940	3093.6	-30.94	4.49%
18-Sep-05			689.4	68940	3095.1	-30.95	4.49%
19-Sep-05		4.0	693.4	69340	3096.7	-30.97	4.47%
20-Sep-05		3.0	696.4	69640	3098.3	-30.98	4.45%
21-Sep-05		0.5	696.9	69690	3099.8	-31.00	4.45%
22-Sep-05			696.9	69690	3101.4	-31.01	4.45%
23-Sep-05		10.0	706.9	70690	3102.9	-31.03	4.39%
24-Sep-05			706.9	70690	3104.5	-31.05	4.39%
25-Sep-05			706.9	70690	3106.1	-31.06	4.39%
26-Sep-05		3.0	709.9	70990	3107.6	-31.08	4.38%
27-Sep-05			709.9	70990	3109.2	-31.09	4.38%
28-Sep-05		2.2	712.1	71210	3110.8	-31.11	4.37%
29-Sep-05		1.6	713.7	71370	3112.3	-31.12	4.36%
30-Sep-05		0.5	714.2	71420	3113.9	-31.14	4.36%
1-Oct-05			714.2	71420	3115.4	-31.15	4.36%
2-Oct-05			714.2	71420	3117.0	-31.17	4.36%
3-Oct-05		6.0	720.2	72020	3118.6	-31.19	4.33%
4-Oct-05		1.5	721.7	72170	3120.1	-31.20	4.32%
5-Oct-05			721.7	72170	3121.7	-31.22	4.33%
6-Oct-05			721.7	72170	3123.2	-31.23	4.33%
7-Oct-05		4.4	726.1	72610	3124.8	-31.25	4.30%
8-Oct-05			726.1	72610	3126.4	-31.26	4.31%
9-Oct-05			726.1	72610	3127.9	-31.28	4.31%
10-Oct-05			726.1	72610	3129.5	-31.29	4.31%
11-Oct-05			726.1	72610	3131.0	-31.31	4.31%
12-Oct-05			726.1	72610	3132.6	-31.33	4.31%
13-Oct-05			726.1	72610	3132.6	-31.33	4.31%
14-Oct-05			726.1	72610	3132.6	-31.33	4.31%
15-Oct-05			726.1	72610	3132.6	-31.33	4.31%
16-Oct-05			726.1	72610	3132.6	-31.33	4.31%
17-Oct-05		2.0	728.1	72810	3132.6	-31.33	4.30%
18-Oct-05			728.1	72810	3132.6	-31.33	4.30%
19-Oct-05			728.1	72810	3132.6	-31.33	4.30%
20-Oct-05			728.1	72810	3132.6	-31.33	4.30%
21-Oct-05			728.1	72810	3132.6	-31.33	4.30%
22-Oct-05			728.1	72810	3132.6	-31.33	4.30%
23-Oct-05			728.1	72810	3132.6	-31.33	4.30%
24-Oct-05			728.1	72810	3132.6	-31.33	4.30%
25-Oct-05			728.1	72810	3132.6	-31.33	4.30%
26-Oct-05			728.1	72810	3132.6	-31.33	4.30%
27-Oct-05			728.1	72810	3132.6	-31.33	4.30%
28-Oct-05			728.1	72810	3132.6	-31.33	4.30%
29-Oct-05			728.1	72810	3132.6	-31.33	4.30%
30-Oct-05			728.1	72810	3132.6	-31.33	4.30%
31-Oct-05			728.1	72810	3132.6	-31.33	4.30%
1-Nov-05			728.1	72810	3132.6	-31.33	4.30%
2-Nov-05		11.2	739.3	73931	3132.6	-31.33	4.24%
3-Nov-05		4.0	743.3	74331	3132.6	-31.33	4.21%
4-Nov-05		3.0	746.3	74631	3132.6	-31.33	4.20%
5-Nov-05			746.3	74631	3132.6	-31.33	4.20%
6-Nov-05			746.3	74631	3132.6	-31.33	4.20%
7-Nov-05			746.3	74631	3132.6	-31.33	4.20%
8-Nov-05		7.3	753.6	75361	3132.6	-31.33	4.16%
9-Nov-05			753.6	75361	3132.6	-31.33	4.16%
10-Nov-05		3.8	757.4	75741	3132.6	-31.33	4.14%

Table 7.3
Brewery Creek Mine
Blue WRSA Lysimeter Performance

Date	Snowpack H ₂ O		Cumulative Liters		Cumulative Tank liters	Cumulative Infiltration mm	Overall % Infiltrate
	Equivalent mm	Precip mm	Cum Precip mm	Precip			
11-Nov-05		2.0	759.4	75941	3132.6	-31.33	4.13%
12-Nov-05			759.4	75941	3132.6	-31.33	4.13%
13-Nov-05			759.4	75941	3132.6	-31.33	4.13%
14-Nov-05			759.4	75941	3132.6	-31.33	4.13%
15-Nov-05			759.4	75941	3132.6	-31.33	4.13%
16-Nov-05			759.4	75941	3132.6	-31.33	4.13%
17-Nov-05			759.4	75941	3132.6	-31.33	4.13%
18-Nov-05			759.4	75941	3132.6	-31.33	4.13%
19-Nov-05			759.4	75941	3132.6	-31.33	4.13%
20-Nov-05			759.4	75941	3132.6	-31.33	4.13%
21-Nov-05		3.1	762.5	76251	3132.6	-31.33	4.11%
22-Nov-05			762.5	76251	3132.6	-31.33	4.11%
23-Nov-05			762.5	76251	3132.6	-31.33	4.11%
24-Nov-05			762.5	76251	3132.6	-31.33	4.11%
25-Nov-05		3.8	766.3	76631	3132.6	-31.33	4.09%
26-Nov-05			766.3	76631	3132.6	-31.33	4.09%
27-Nov-05			766.3	76631	3132.6	-31.33	4.09%
28-Nov-05			766.3	76631	3132.6	-31.33	4.09%
29-Nov-05			766.3	76631	3132.6	-31.33	4.09%
30-Nov-05		6.3	772.6	77256	3132.6	-31.33	4.05%
1-Dec-05			772.6	77256	3132.6	-31.33	4.05%
2-Dec-05			772.6	77256	3132.6	-31.33	4.05%
3-Dec-05			772.6	77256	3132.6	-31.33	4.05%
4-Dec-05			772.6	77256	3132.6	-31.33	4.05%
5-Dec-05			772.6	77256	3132.6	-31.33	4.05%
6-Dec-05			772.6	77256	3132.6	-31.33	4.05%
7-Dec-05			772.6	77256	3132.6	-31.33	4.05%
8-Dec-05			772.6	77256	3132.6	-31.33	4.05%
9-Dec-05		9.3	781.9	78186	3132.6	-31.33	4.01%
10-Dec-05			781.9	78186	3132.6	-31.33	4.01%
11-Dec-05			781.9	78186	3132.6	-31.33	4.01%
12-Dec-05			781.9	78186	3132.6	-31.33	4.01%
13-Dec-05			781.9	78186	3132.6	-31.33	4.01%
14-Dec-05			781.9	78186	3132.6	-31.33	4.01%
15-Dec-05			781.9	78186	3132.6	-31.33	4.01%
16-Dec-05		11.8	793.7	79366	3132.6	-31.33	3.95%
17-Dec-05			793.7	79366	3132.6	-31.33	3.95%
18-Dec-05			793.7	79366	3132.6	-31.33	3.95%
19-Dec-05			793.7	79366	3132.6	-31.33	3.95%
20-Dec-05			793.7	79366	3132.6	-31.33	3.95%
21-Dec-05			793.7	79366	3132.6	-31.33	3.95%
22-Dec-05			793.7	79366	3132.6	-31.33	3.95%
23-Dec-05			793.7	79366	3132.6	-31.33	3.95%
24-Dec-05			793.7	79366	3132.6	-31.33	3.95%
25-Dec-05			793.7	79366	3132.6	-31.33	3.95%
26-Dec-05			793.7	79366	3132.6	-31.33	3.95%
27-Dec-05			793.7	79366	3132.6	-31.33	3.95%
28-Dec-05			793.7	79366	3132.6	-31.33	3.95%
29-Dec-05			793.7	79366	3132.6	-31.33	3.95%
30-Dec-05			793.7	79366	3132.6	-31.33	3.95%
31-Dec-05			793.7	79366	3132.6	-31.33	3.95%

Appendix A

CLIMATE

Brewery Creek Mine

Climate Data - Summary 2005

Date	Temperature (°C)			Precipitation (mm)	Evap (mm)
	Max.	Min.	Ave.		
January	-5.3	-36.0	-20.7	22.4	n/a
February				33.2	n/a
March				18.9	n/a
April	18.6	-0.9	8.9	26.0	n/a
May	26.4	0.4	13.4	37.9	88
June	33.1	3.6	18.4	37.6	129
July	26.4	14.1	20.3	38.9	120
August	26.1	1.2	13.7	63.7	78
September	15.3	-0.7	7.3	49.9	50
October	9.8	-8.7	0.6	13.9	n/a
November	5.6	-32.0	-13.2	44.5	n/a
December	4.8	-35.2	-15.2	21.1	n/a
Summary	33.1	-36.0	3.3	408.0	464.0

When necessary, Temperature and Precipitation records from the Manual Weather Station have supplemented missing data

**Brewery Creek Mine
Monitoring Pursuant to Water License QZ96-007**

Climate Data - January 2005

Date	Temperature (°C)			Ppt. (mm)
	Max.	Min.	Ave.	
1-Jan-05	-11.4	-30.0	-20.7	
2-Jan-05				
3-Jan-05				
4-Jan-05	-26.0	-30.0	-28.0	
5-Jan-05				
6-Jan-05				
7-Jan-05				
8-Jan-05				
9-Jan-05				
10-Jan-05				
11-Jan-05	-5.3	-31.0	-18.2	
12-Jan-05				
13-Jan-05				
14-Jan-05	-11.9	-22.0	-17.0	
15-Jan-05				
16-Jan-05				
17-Jan-05				
18-Jan-05	-21.0	-31.0	-26.0	13.0
19-Jan-05				
20-Jan-05	-17.0	-29.0	-23.0	
21-Jan-05				
22-Jan-05	-13.0	-20.0	-16.5	6.1
23-Jan-05				
24-Jan-05	-13.0	-28.0	-20.5	3.3
25-Jan-05				
26-Jan-05	-28.0	-36.0	-32.0	
27-Jan-05				
28-Jan-05	-28.0	-36.0	-32.0	
29-Jan-05				
30-Jan-05	-33.0	-35.0	-34.0	
31-Jan-05				

Monthly Min. Temp.	-36.0	°C
Monthly Max. Temp.	-5.3	°C
Average Temperature	-24.3	°C
Total AWS Precipitation	22.4	mm

**Brewery Creek Mine
Monitoring Pursuant to Water License QZ96-007**

Climate Data - February 2005

Date	Temperature (°C)			Ppt. (mm)
	Max.	Min.	Ave.	
1-Feb-05				
2-Feb-05				
3-Feb-05				
4-Feb-05				
5-Feb-05				
6-Feb-05				
7-Feb-05				
8-Feb-05				
9-Feb-05				
10-Feb-05				
11-Feb-05				
12-Feb-05				
13-Feb-05				
14-Feb-05				
15-Feb-05				
16-Feb-05				
17-Feb-05				
18-Feb-05				16.9
19-Feb-05				
20-Feb-05				
21-Feb-05				
22-Feb-05				
23-Feb-05				
24-Feb-05				
25-Feb-05				
26-Feb-05				16.3
27-Feb-05				
28-Feb-05				

Monthly Min. Temp.	0.0	°C
Monthly Max. Temp.	0.0	°C
Average Temperature	#DIV/0!	°C
Total AWS Precipitation	33.2	mm

**Brewery Creek Mine
Monitoring Pursuant to Water License QZ96-007**

Climate Data - March 2005

Date	Temperature (°C)			Ppt. (mm)
	Max.	Min.	Ave.	
1-Mar-05				
2-Mar-05				1.3
3-Mar-05				
4-Mar-05				
5-Mar-05				
6-Mar-05				
7-Mar-05				
8-Mar-05				
9-Mar-05				
10-Mar-05				
11-Mar-05				
12-Mar-05				
13-Mar-05				
14-Mar-05				
15-Mar-05				17.6
16-Mar-05				
17-Mar-05				
18-Mar-05				
19-Mar-05				
20-Mar-05				
21-Mar-05				
22-Mar-05				
23-Mar-05				
24-Mar-05				
25-Mar-05				
26-Mar-05				
27-Mar-05				
28-Mar-05				
29-Mar-05				
30-Mar-05				
31-Mar-05				

Monthly Min. Temp.	0.0	°C
Monthly Max. Temp.	0.0	°C
Average Temperature	#DIV/0!	°C
Total AWS Precipitation	18.9	mm

**Brewery Creek Mine
Monitoring Pursuant to Water License QZ96-007**

Climate Data - April 2005

Date	Temperature (°C)			Ppt. (mm)
	Max.	Min.	Ave.	
1-Apr-05				
2-Apr-05				
3-Apr-05				
4-Apr-05				
5-Apr-05				
6-Apr-05				
7-Apr-05				
8-Apr-05				8.0
9-Apr-05				
10-Apr-05				
11-Apr-05				
12-Apr-05				
13-Apr-05				
14-Apr-05				
15-Apr-05				
16-Apr-05				
17-Apr-05				
18-Apr-05				18.0
19-Apr-05				
20-Apr-05				
21-Apr-05				
22-Apr-05				
23-Apr-05				
24-Apr-05				
25-Apr-05	17.7	-0.4	8.7	
26-Apr-05	14.9	-0.9	7.0	
27-Apr-05	15.9	3.4	9.7	
28-Apr-05	18.6	2.2	10.4	
29-Apr-05	14.8	2.1	8.5	
30-Apr-05				

Monthly Min. Temp.	-0.9	°C
Monthly Max. Temp.	18.6	°C
Average Temperature	8.8	°C
Total AWS Precipitation	26.0	mm

**Brewery Creek Mine
Monitoring Pursuant to Water License QZ96-007**

Climate Data - May 2005

Date	Temperature (°C)			Ppt. (mm)
	Max.	Min.	Ave.	
1-May-05	16.7	1.1	8.9	
2-May-05	16.8	1.8	9.3	
3-May-05	16.7	1.3	9.0	
4-May-05	13.1	0.4	6.8	4.0
5-May-05	18.2	1.3	9.8	
6-May-05				
7-May-05	21.6	4.4	13.0	
8-May-05	21.1	7.1	14.1	
9-May-05	23.0	7.2	15.1	
10-May-05	21.9	5.7	13.8	
11-May-05	26.4	6.2	16.3	
12-May-05				
13-May-05				
14-May-05	20.7	8.3	14.5	
15-May-05	17.8	7.7	12.8	
16-May-05	9.7	5.2	7.5	3.0
17-May-05	16.6	5.0	10.8	8.0
18-May-05	15.7	5.3	10.5	6.0
19-May-05				
20-May-05				
21-May-05				
22-May-05	14.4	2.0	8.2	
23-May-05	18.7	6.1	12.4	
24-May-05	15.7	6.7	11.2	12.5
25-May-05	18.6	11.8	15.2	
26-May-05				2.0
27-May-05				
28-May-05	21.4	6.1	13.8	
29-May-05	19.7	8.9	14.3	
30-May-05				2.4
31-May-05				

Monthly Min. Temp.	0.4	°C
Monthly Max. Temp.	26.4	°C
Average Temperature	11.8	°C
Total AWS Precipitation	37.9	mm

**Brewery Creek Mine
Monitoring Pursuant to Water License QZ96-007**

Climate Data - June 2005

Date	Temperature (°C)			Ppt. (mm)
	Max.	Min.	Ave.	
1-Jun-05	33.1	5.4	19.3	
2-Jun-05	23.1	6.8	15.0	1.4
3-Jun-05		5.2	5.2	7.9
4-Jun-05				
5-Jun-05	18.7	3.6	11.2	
6-Jun-05	13.6	4.8	9.2	0.8
7-Jun-05	15.6	5.8	10.7	3.0
8-Jun-05				3.0
9-Jun-05	23.9	11.7	17.8	
10-Jun-05				
11-Jun-05				12.5
12-Jun-05	24.9	8.7	16.8	3.5
13-Jun-05	21.4	8.7	15.1	
14-Jun-05	21.7	10.0	15.9	
15-Jun-05	22.2	9.2	15.7	
16-Jun-05	22.8	10.4	16.6	
17-Jun-05				
18-Jun-05				
19-Jun-05				
20-Jun-05	19.3	7.1	13.2	1.0
21-Jun-05	20.7	6.2	13.5	4.5
22-Jun-05	19.8	6.8	13.3	
23-Jun-05	18.8	6.4	12.6	
24-Jun-05				
25-Jun-05				
26-Jun-05	22.1	6.7	14.4	
27-Jun-05	22.3	8.5	15.4	
28-Jun-05	21.8	9.2	15.5	
29-Jun-05	25.7	11.3	18.5	
30-Jun-05	26.4	13.2	19.8	

Monthly Min. Temp.	3.6	°C
Monthly Max. Temp.	33.1	°C
Average Temperature	14.5	°C
Total AWS Precipitation	37.6	mm

**Brewery Creek Mine
Monitoring Pursuant to Water License QZ96-007**

Climate Data - July 2005

Date	Temperature (°C)			Ppt. (mm)
	Max.	Min.	Ave.	
1-Jul-05				
2-Jul-05				6.0
3-Jul-05	26.4	9.4	17.9	6.5
4-Jul-05	17.1	9.3	13.2	6.5
5-Jul-05	17.8	7.6	12.7	2.0
6-Jul-05	18.5	8.4	13.5	
7-Jul-05	19.9	6.5	13.2	
8-Jul-05				2.0
9-Jul-05				
10-Jul-05	22.5	7.1	14.8	
11-Jul-05	21.2	12.8	17.0	
12-Jul-05	23.9	12.0	18.0	
13-Jul-05	22.6	10.9	16.8	2.0
14-Jul-05	20.4	10.1	15.3	
15-Jul-05				2.6
16-Jul-05				
17-Jul-05	21.4	10.2	15.8	
18-Jul-05	21.0	10.9	16.0	1.4
19-Jul-05	19.2	4.9	12.1	
20-Jul-05	13.3	0.7	7.0	
21-Jul-05	17.1	1.2	9.2	
22-Jul-05				
23-Jul-05				
24-Jul-05	20.0	7.4	13.7	
25-Jul-05	19.2	7.8	13.5	0.7
26-Jul-05	20.9	9.3	15.1	0.3
27-Jul-05	20.2	9.8	15.0	3.9
28-Jul-05	18.7	7.6	13.2	
29-Jul-05				5.0
30-Jul-05				
31-Jul-05				

Monthly Min. Temp.	0.7	°C
Monthly Max. Temp.	26.4	°C
Average Temperature	14.1	°C
Total AWS Precipitation	38.9	mm

**Brewery Creek Mine
Monitoring Pursuant to Water License QZ96-007**

Climate Data - August 2005

Date	Temperature (°C)			Ppt. (mm)
	Max.	Min.	Ave.	
1-Aug-05		3.1		28.0
2-Aug-05	16.6	5.4	11.0	
3-Aug-05	15.8	7.8	11.8	4.0
4-Aug-05	15.7	8.0	11.9	3.8
5-Aug-05				
6-Aug-05				
7-Aug-05	17.8	7.4	12.6	
8-Aug-05	18.9	8.1	13.5	0.5
9-Aug-05	23.6	9.3	16.5	
10-Aug-05	25.8	13.7	19.8	
11-Aug-05	26.1	13.6	19.9	
12-Aug-05				
13-Aug-05				
14-Aug-05	25.3	10.2	17.8	
15-Aug-05	22.6	10.9	16.8	
16-Aug-05	20.6	10.1	15.4	
17-Aug-05	20.6	7.5	14.1	
18-Aug-05				1.0
19-Aug-05				
20-Aug-05				
21-Aug-05	15.4	1.2	8.3	
22-Aug-05	13.8	8.0	10.9	
23-Aug-05	16.7	9.3	13.0	
24-Aug-05	15.4	8.7	12.1	1.0
25-Aug-05	9.8	3.8	6.8	7.0
26-Aug-05				10.2
27-Aug-05				
28-Aug-05	13.6	1.6	7.6	
29-Aug-05	14.6	6.9	10.8	
30-Aug-05	11.7	5.8	8.8	
31-Aug-05	10.4		10.4	8.2

Monthly Min. Temp.	1.2	°C
Monthly Max. Temp.	26.1	°C
Average Temperature	12.8	°C
Total AWS Precipitation	63.7	mm

**Brewery Creek Mine
Monitoring Pursuant to Water License QZ96-007**

Climate Data - September 2005

Date	Temperature (°C)			Ppt. (mm)
	Max.	Min.	Ave.	
1-Sep-05	10.5	5.7	8.1	10.4
2-Sep-05		1.7		5.0
3-Sep-05				
4-Sep-05				
5-Sep-05	13.2	1.6	7.4	
6-Sep-05	15.2	6.2	10.7	
7-Sep-05	14.3	2.1	8.2	0.5
8-Sep-05	12.9	2.0	7.5	
9-Sep-05				0.5
10-Sep-05				
11-Sep-05	15.3	2.6	9.0	
12-Sep-05	10.8	6.0	8.4	4.5
13-Sep-05	10.2	0.3	5.3	4.0
14-Sep-05	11.0	3.2	7.1	
15-Sep-05	12.4	3.2	7.8	
16-Sep-05				0.2
17-Sep-05				
18-Sep-05				
19-Sep-05	7.3	3.7	5.5	4.0
20-Sep-05	7.8	-0.1	3.9	3.0
21-Sep-05	6.5	-0.7	2.9	0.5
22-Sep-05	4.4	1.3	2.9	
23-Sep-05		0.9	0.9	10.0
24-Sep-05				
25-Sep-05	9.2	-0.4	4.4	
26-Sep-05	6.4	-0.3	3.1	3.0
27-Sep-05	5.9	0.2	3.1	
28-Sep-05	5.0	0.6	2.8	2.2
29-Sep-05	7.6	0.5	4.1	1.6
30-Sep-05				0.5
1-Oct-05				

Monthly Min. Temp.	-0.7	°C
Monthly Max. Temp.	15.3	°C
Average Temperature	5.6	°C
Total AWS Precipitation	49.9	mm

**Brewery Creek Mine
Monitoring Pursuant to Water License QZ96-007**

Climate Data - October 2005

Date	Temperature (°C)			Ppt. (mm)
	Max.	Min.	Ave.	
1-Oct-05				
2-Oct-05	7.4			
3-Oct-05	6.6	-2.2	2.2	6.0
4-Oct-05	9.5	-1.7	3.9	1.5
5-Oct-05	3.4	0.2	1.8	
6-Oct-05	3.8	-0.1	1.9	
7-Oct-05	2.7	-0.6	1.1	4.4
8-Oct-05				
9-Oct-05				
10-Oct-05				
11-Oct-05	2.4	-5.7	-1.7	
12-Oct-05	2.1	-2.7	-0.3	
13-Oct-05	0.3	-2.7	-1.2	
14-Oct-05		-5.5	-5.5	
15-Oct-05				
16-Oct-05	-2.2	-8.7	-5.5	
17-Oct-05	-3.2	-7.4	-5.3	2.0
18-Oct-05	-0.1	-6.7	-3.4	
19-Oct-05	1.3	-7.2	-3.0	
20-Oct-05	1.3	-2.1	-0.4	
21-Oct-05				
22-Oct-05				
23-Oct-05				
24-Oct-05				
25-Oct-05				
26-Oct-05				
27-Oct-05				
28-Oct-05				
29-Oct-05				
30-Oct-05				
31-Oct-05				

Monthly Min. Temp.	-8.7	°C
Monthly Max. Temp.	9.5	°C
Average Temperature	-1.1	°C
Total AWS Precipitation	13.9	mm

**Brewery Creek Mine
Monitoring Pursuant to Water License QZ96-007**

Climate Data - November 2005

Date	Temperature (°C)			Ppt. (mm)
	Max.	Min.	Ave.	
1-Nov-05	-7.2	-14.1	-10.7	11.2
2-Nov-05	-6.2	-15.2	-10.7	4.0
3-Nov-05	-14.3	-16.9	-15.6	3.0
4-Nov-05	-14.0	-20.7	-17.4	
5-Nov-05	-17.4	-25.7	-21.6	
6-Nov-05	-23.1	-31.3	-27.2	
7-Nov-05	-21.3	-31.0	-26.2	7.3
8-Nov-05	-17.9	-24.2	-21.1	
9-Nov-05	-12.4	-19.4	-15.9	3.8
10-Nov-05	-11.6	-15.2	-13.4	2.0
11-Nov-05	-13.8	-18.2	-16.0	
12-Nov-05	-16.0	-20.2	-18.1	
13-Nov-05	-17.8	-26.6	-22.2	
14-Nov-05				
15-Nov-05				
16-Nov-05	-11.9	-29.2	-20.6	3.1
17-Nov-05				
18-Nov-05				
19-Nov-05				
20-Nov-05				
21-Nov-05	-3.3	-17.8	-10.6	3.8
22-Nov-05				
23-Nov-05				
24-Nov-05				
25-Nov-05	5.6	-14.2	-4.3	6.3
26-Nov-05				
27-Nov-05				
28-Nov-05				
29-Nov-05				
30-Nov-05	2.8	-32.0	-14.6	

Monthly Min. Temp.	-32.0	°C
Monthly Max. Temp.	5.6	°C
Average Temperature	-16.8	°C
Total AWS Precipitation	44.5	mm

**Brewery Creek Mine
Monitoring Pursuant to Water License QZ96-007**

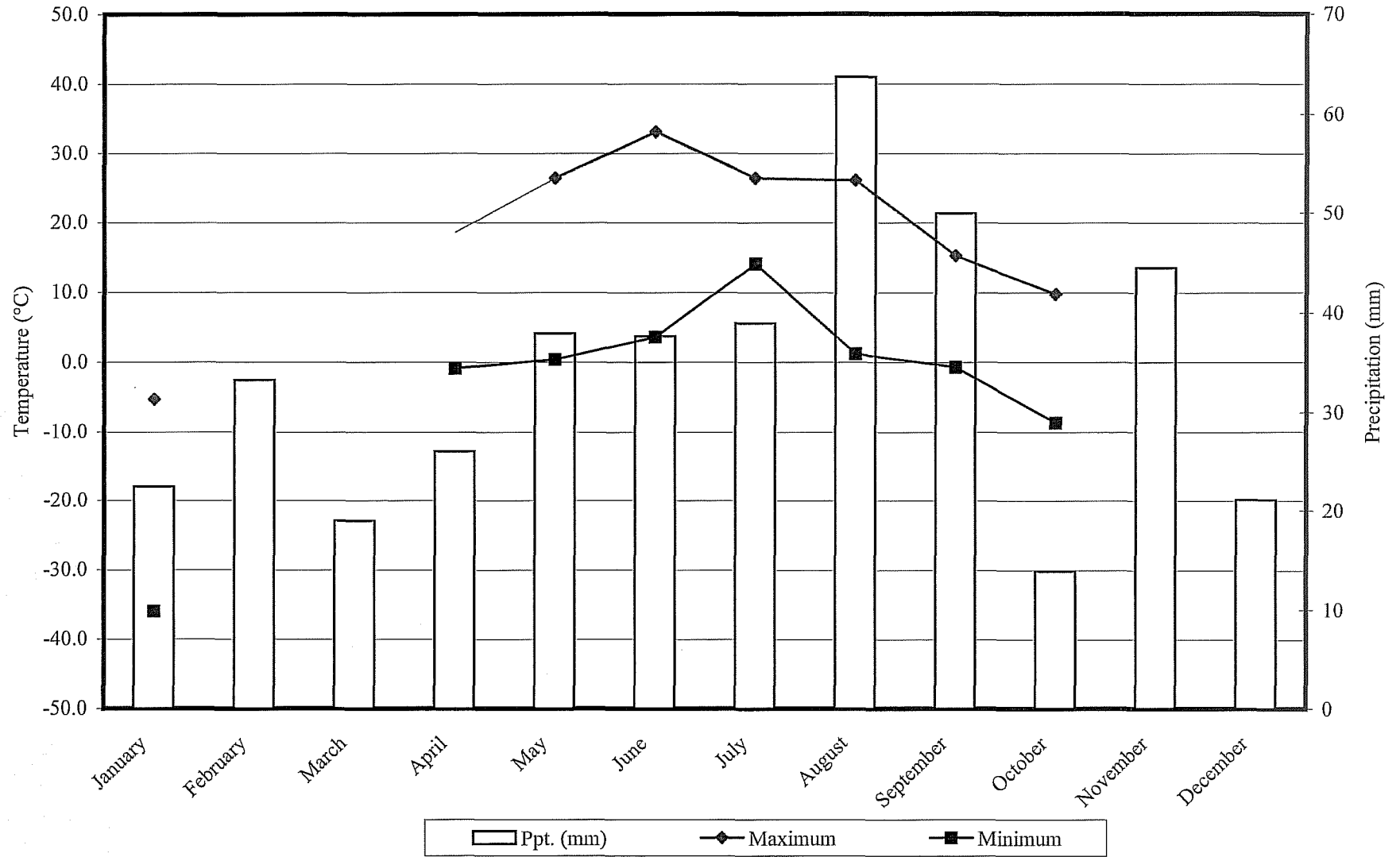
Climate Data - December 2005

Date	Temperature (°C)			Ppt. (mm)
	Max.	Min.	Ave.	
1-Dec-05	-24.8	-35.2	-30.0	
2-Dec-05	-26.6	-34.1	-30.4	
3-Dec-05				
4-Dec-05				
5-Dec-05				
6-Dec-05	-19.8	-34.7	-27.3	
7-Dec-05				
8-Dec-05				
9-Dec-05	1.7	-21.4	-9.9	9.3
10-Dec-05				
11-Dec-05				
12-Dec-05				
13-Dec-05				
14-Dec-05				
15-Dec-05				
16-Dec-05	3.1	-17.5	-7.2	11.8
17-Dec-05				
18-Dec-05				
19-Dec-05				
20-Dec-05				
21-Dec-05				
22-Dec-05	4.8	-19.2	-7.2	
23-Dec-05				
24-Dec-05				
25-Dec-05				
26-Dec-05				
27-Dec-05				
28-Dec-05				
29-Dec-05	-1.4	-16.2	-8.8	
30-Dec-05				

Monthly Min. Temp.	-35.2	°C
Monthly Max. Temp.	4.8	°C
Average Temperature	-17.2	°C
Total AWS Precipitation	21.1	mm

Brewery Creek Mine

2005 TEMPERATURE RANGE & PRECIPITATION



Pan Evaporation Data - May 2005

DATE	TIME	WATER ADDED (mm)	PPT. GAUGE (mm)	PAN WATER LEVEL (mm)	NET EVAP. (mm)	COMMENTS/ INITIALS
				97.0	<<< Carry forward	
1-May-05						
2-May-05						
3-May-05						
4-May-05			4.0			
5-May-05						
6-May-05						
7-May-05						
8-May-05						
9-May-05				97.0		
10-May-05				97.0	0.0	
11-May-05				93.0	4.0	
12-May-05				87.0	6.0	
13-May-05				80.0	7.0	
14-May-05				74.0	6.0	
15-May-05				68.0	6.0	
16-May-05			3.0	62.0	9.0	
17-May-05			8.0	63.0	7.0	
18-May-05			6.0	68.0	1.0	
19-May-05				64.0	4.0	
20-May-05				61.0	3.0	
21-May-05				58.5	2.5	
22-May-05				56.0	2.5	
23-May-05				53.5	2.5	
24-May-05			12.5	71.0	-5.0	
25-May-05				66.0	5.0	
26-May-05			2.0	65.0	3.0	
27-May-05				60.0	5.0	
28-May-05				59.0	1.0	
29-May-05				58.5	0.5	
30-May-05			2.4	58.0	2.9	
31-May-05				43.0	15.0	
Totals			37.9	43.0	87.9	

Pan Evaporation Data - June 2005

DATE	TIME	WATER ADDED (mm)	PPT. GAUGE (mm)	PAN WATER LEVEL (mm)	NET EVAP. (mm)	COMMENTS/INITIALS
				43.0	<<< Carry forward	
1-Jun-05				40.0	3.0	
2-Jun-05			1.4	39.0	2.4	
3-Jun-05			7.9	45.0	1.9	
4-Jun-05				42.0	3.0	
5-Jun-05				39.0	3.0	
6-Jun-05			0.8	37.0	2.8	
7-Jun-05			3.0	39.0	1.0	
8-Jun-05			3.0	40.0	2.0	
9-Jun-05				33.0	7.0	
10-Jun-05				25.0	8.0	
11-Jun-05			12.5	28.0	9.5	
12-Jun-05			3.5	31.0	0.5	
13-Jun-05				30.0	1.0	
14-Jun-05				29.0	1.0	
15-Jun-05				28.0	1.0	
16-Jun-05				21.0	7.0	
17-Jun-05				15.0	6.0	
18-Jun-05				10.0	5.0	
19-Jun-05				6.0	4.0	
20-Jun-05			1.0	2.1	4.9	
21-Jun-05		40.0	4.5	43.0	3.6	
22-Jun-05				36.0	7.0	
23-Jun-05				32.0	4.0	
24-Jun-05		100.0		130.0	2.0	
25-Jun-05				122.0	8.0	
26-Jun-05				114.0	8.0	
27-Jun-05				108.0	6.0	
28-Jun-05				104.0	4.0	
29-Jun-05				97.0	7.0	
30-Jun-05				92.0	5.0	
Totals			37.6	0.0	128.6	

Pan Evaporation Data - July 2005

DATE	TIME	WATER ADDED (mm)	PPT. GAUGE (mm)	PAN WATER LEVEL (mm)	NET EVAP. (mm)	COMMENTS/ INITIALS
				92.0	<<<< Carry forward	
1-Jul-05				85.0	7.0	
2-Jul-05			6.0	84.0	7.0	
3-Jul-05			6.5	82.0	8.5	
4-Jul-05			6.5	86.0	2.5	
5-Jul-05			2.0	86.0	2.0	
6-Jul-05				82.0	4.0	
7-Jul-05				78.0	4.0	
8-Jul-05			2.0	77.0	3.0	
9-Jul-05				71.0	6.0	
10-Jul-05				68.0	3.0	
11-Jul-05				63.0	5.0	
12-Jul-05				58.0	5.0	
13-Jul-05			2.0	57.0	3.0	
14-Jul-05				53.0	4.0	
15-Jul-05			2.6	52.0	3.6	
16-Jul-05				49.0	3.0	
17-Jul-05				47.0	2.0	
18-Jul-05			1.4	45.0	3.4	
19-Jul-05				43.0	2.0	
20-Jul-05		30.0		70.0	3.0	
21-Jul-05				66.0	4.0	
22-Jul-05				61.0	5.0	
23-Jul-05				57.0	4.0	
24-Jul-05				53.0	4.0	
25-Jul-05			0.7	49.0	4.7	
26-Jul-05			0.3	46.0	3.3	
27-Jul-05			3.9	47.0	2.9	
28-Jul-05				43.0	4.0	
29-Jul-05			5.0	47.0	1.0	
30-Jul-05				44.0	3.0	
31-Jul-05				41.0	3.0	
Totals			38.9	41.0	119.9	

Pan Evaporation Data - August 2005

DATE	TIME	WATER ADDED (mm)	PPT. GAUGE (mm)	PAN WATER LEVEL (mm)	NET EVAP. (mm)	COMMENTS/ INITIALS
				41.0	<<< Carry forward	
1-Aug-05			28.0	73.0	-4.0	
2-Aug-05				72.0	1.0	
3-Aug-05			4.0	73.0	3.0	
4-Aug-05			3.8	76.0	0.8	
5-Aug-05				74.0	2.0	
6-Aug-05				72.0	2.0	
7-Aug-05				71.0	1.0	
8-Aug-05			0.5	69.0	2.5	
9-Aug-05				65.0	4.0	
10-Aug-05				62.0	3.0	
11-Aug-05				58.0	4.0	
12-Aug-05				53.0	5.0	
13-Aug-05				49.0	4.0	
14-Aug-05				44.0	5.0	
15-Aug-05				41.0	3.0	
16-Aug-05				38.0	3.0	
17-Aug-05				35.0	3.0	
18-Aug-05		42.0	1.0	65.0	13.0	
19-Aug-05				62.0	3.0	
20-Aug-05				59.0	3.0	
21-Aug-05				57.0	2.0	
22-Aug-05				55.0	2.0	
23-Aug-05				53.0	2.0	
24-Aug-05			1.0	51.0	3.0	
25-Aug-05			7.0	60.0	-2.0	
26-Aug-05			10.2	69.0	1.2	
27-Aug-05				67.0	2.0	
28-Aug-05				65.0	2.0	
29-Aug-05				63.0	2.0	
30-Aug-05				65.0	-2.0	
31-Aug-05			8.2	69.0	4.2	
Totals			63.7	69.0	77.7	

Pan Evaporation Data - September2005

DATE	TIME	WATER ADDED (mm)	PPT. GAUGE (mm)	PAN WATER LEVEL (mm)	NET EVAP. (mm)	COMMENTS/ INITIALS
				69.0	<<< Carry forward	
1-Sep-05			10.4	80.0	-0.6	
2-Sep-05			5.0	85.0	0.0	
3-Sep-05				83.0	2.0	
4-Sep-05				81.0	2.0	
5-Sep-05				79.0	2.0	
6-Sep-05				77.0	2.0	
7-Sep-05			0.5	76.0	1.5	
8-Sep-05				74.0	2.0	
9-Sep-05			0.5	73.0	1.5	
10-Sep-05				74.0	-1.0	
11-Sep-05				75.0	-1.0	
12-Sep-05			4.5	76.0	3.5	
13-Sep-05			4.0	79.0	1.0	
14-Sep-05				78.0	1.0	
15-Sep-05				77.0	1.0	
16-Sep-05			0.2	78.0	-0.8	
17-Sep-05				75.0	3.0	
18-Sep-05				74.0	1.0	
19-Sep-05			4.0	73.0	5.0	
20-Sep-05			3.0	72.0	4.0	
21-Sep-05			0.5	71.0	1.5	
22-Sep-05				69.0	2.0	
23-Sep-05			10.0	77.0	2.0	
24-Sep-05				77.0	0.0	
25-Sep-05				75.0	2.0	
26-Sep-05			3.0	74.0	4.0	
27-Sep-05				72.0	2.0	
28-Sep-05			2.2	71.0	3.2	
29-Sep-05			1.6	70.0	2.6	
30-Sep-05			0.5	69.0	1.5	
Totals			49.9	0.0	49.9	

Brewery Creek Mine

Pan Evaporation Data: SUMMARY OF DATA COLLECTED TO DATE

	MONTHLY PAN EVAPORATION DATA					
	May	June	July	August	September	October
1997			138.0	85.8	82.2	
1998		148.0	199.6	128.5	53.3	
1999	75.9	181.8	169.8	128.5	56.8	
2000	45.9	130.8	106.6	80.0	37.2	
2001	19.9	145.6	93.9	82.1	44.9	16.0
2002	121.7	118.7	119.6	50.3	36.3	24.5
2003	97.3	151.5	149.7	112.1	47.2	26.4
2004	77.4	142.8	112.6	103.4	32.5	
2005	87.9	128.6	119.9	77.7	49.9	0.0
AVERAGE	75.1	143.5	134.4	94.3	48.9	16.7

	CALCULATED MONTHLY LAKE EVAPORATION pan coefficient = 0.7					
	May	June	July	August	September	October
1997			96.6	60.1	57.5	
1998		103.6	139.7	90.0	37.3	
1999	53.1	127.2	118.8	90.0	39.8	
2000	32.1	91.6	74.6	56.0	26.0	
2001	13.9	101.9	65.7	57.5	31.4	11.2
2002	85.2	83.1	83.7	35.2	25.4	17.2
2003	68.1	106.1	104.8	78.5	33.0	18.5
2004	54.2	100.0	78.8	72.4	22.8	
2005						
AVERAGE	51.1	101.9	95.3	67.4	34.2	15.6

Appendix C

HYDROLOGY

Alexco Resource Corp.
Brewery Creek Mine
Water Flows

STATION ID:	BC-PH	Date	Time	Staff Gauge	Left Bank	Right Bank	Width	Area	Discharge				
				(m)	(m)	(m)	(m)	(m ²)	(m ³ /sec)	(m ³ /min)	(L/sec)	(USGPM)	
		18-May-05	1:15	0.31	1.94	0.98	0.96	0.261	0.280	16.782	279.7	4,433.3	
		Temp.	Cond.	PH									
		<i>Intervals >>></i>											
	10	<i>Totals</i>	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	
	Width (m)	0.960	0.07	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.09	
	Depth (m)	Enter >>>>>	0.29	0.28	0.35	0.28	0.27	0.24	0.25	0.27	0.25	0.24	
	Area (m2)	0.261	0.020	0.028	0.035	0.028	0.027	0.024	0.025	0.027	0.025	0.022	0.000
	Velocity (m/sec)	Enter >>>>>	1.27	1.48	1.44	1.14	1.03	1.15	1.01	0.81	0.57	0.64	
	Discharge (m3/sec)	0.280	0.025	0.041	0.050	0.032	0.028	0.028	0.025	0.022	0.014	0.014	0.000

STATION ID:	BC-PH	Date	Time	Staff Gauge	Left Bank	Right Bank	Width	Area	Discharge				
				(m)	(m)	(m)	(m)	(m ²)	(m ³ /sec)	(m ³ /min)	(L/sec)	(USGPM)	
		19-May-04	1:00	0.28	1.95	0.98	0.97	0.230	0.226	13.563	226.1	3,583.1	
		Temp.	Cond.	PH									
		<i>Intervals >>></i>											
	10	<i>Totals</i>	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	
	Width (m)	0.970	0.07	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	
	Depth (m)	Enter >>>>>	0.26	0.26	0.29	0.23	0.24	0.19	0.24	0.23	0.22	0.22	
	Area (m2)	0.230	0.018	0.026	0.029	0.023	0.024	0.019	0.024	0.023	0.022	0.022	0.000
	Velocity (m/sec)	Enter >>>>>	1.28	1.27	1.22	1.20	1.26	0.97	0.74	0.73	0.58	0.49	
	Discharge (m3/sec)	0.226	0.023	0.033	0.035	0.028	0.030	0.018	0.018	0.017	0.013	0.011	0.000

STATION ID:	BC-PH	Date	Time	Staff Gauge	Left Bank	Right Bank	Width	Area	Discharge				
				(m)	(m)	(m)	(m)	(m ²)	(m ³ /sec)	(m ³ /min)	(L/sec)	(USGPM)	
		20-May-05	3:10	0.26	1.94	0.98	0.96	0.236	0.193	11.590	193.2	3,061.7	
		Temp.	Cond.	PH									
		<i>Intervals >>></i>											
	10	<i>Totals</i>	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	
	Width (m)	0.960	0.07	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.09	
	Depth (m)	Enter >>>>>	0.27	0.26	0.28	0.26	0.24	0.24	0.25	0.24	0.23	0.21	
	Area (m2)	0.236	0.019	0.026	0.028	0.026	0.024	0.024	0.025	0.024	0.023	0.019	0.000
	Velocity (m/sec)	Enter >>>>>	1.10	1.03	1.09	0.85	0.92	0.88	0.68	0.72	0.56	0.21	
	Discharge (m3/sec)	0.193	0.020	0.027	0.030	0.022	0.022	0.021	0.017	0.017	0.013	0.004	0.000

Alexco Resource Corp.
Brewery Creek Mine
Water Flows

STATION ID:	BC-PH	Date	Time	Staff Gauge	Left Bank	Right Bank	Width	Area	Discharge				
				(m)	(m)	(m)	(m)	(m ²)	(m ³ /sec)	(m ³ /min)	(L/sec)	(USGPM)	
		24-May-05	1:20	0.27	1.94	0.98	0.96	0.221	0.197	11.792	196.5	3,115.1	
		Temp.	Cond.	PH									
		<i>Intervals >>></i>											
		<i>Totals</i>	<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>	<i>8</i>	<i>9</i>	<i>10</i>	<i>11</i>
10			1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	
Width (m)	0.960		0.07	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.09	
Depth (m)	Enter >>>>>		0.25	0.25	0.27	0.23	0.22	0.20	0.23	0.24	0.21	0.20	
Area (m2)	0.221		0.018	0.025	0.027	0.023	0.022	0.020	0.023	0.024	0.021	0.018	0.000
Velocity (m/sec)			1.26	1.18	1.11	0.90	1.04	0.87	0.72	0.78	0.67	0.26	
Discharge (m3/sec)	0.197		0.022	0.030	0.030	0.021	0.023	0.017	0.017	0.019	0.014	0.005	0.000

STATION ID:	BC-PH	Date	Time	Staff Gauge	Left Bank	Right Bank	Width	Area	Discharge				
				(m)	(m)	(m)	(m)	(m ²)	(m ³ /sec)	(m ³ /min)	(L/sec)	(USGPM)	
		25-May-05	1:10	0.26	1.94	0.98	0.96	0.209	0.145	8.679	144.7	2,292.9	
		Temp.	Cond.	PH									
		<i>Intervals >>></i>											
		<i>Totals</i>	<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>	<i>8</i>	<i>9</i>	<i>10</i>	<i>11</i>
10			1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	
Width (m)	0.960		0.07	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.09	
Depth (m)	Enter >>>>>		0.26	0.25	0.23	0.22	0.23	0.19	0.22	0.21	0.20	0.19	
Area (m2)	0.209		0.018	0.025	0.023	0.022	0.023	0.019	0.022	0.021	0.020	0.017	0.000
Velocity (m/sec)	Enter >>>>>		1.16	1.03	0.97	0.08	0.89	0.73	0.71	0.70	0.46	0.07	
Discharge (m3/sec)	0.145		0.021	0.025	0.022	0.002	0.020	0.014	0.016	0.014	0.009	0.001	0.000

STATION ID:	BC-PH	Date	Time	Staff Gauge	Left Bank	Right Bank	Width	Area	Discharge				
				(m)	(m)	(m)	(m)	(m ²)	(m ³ /sec)	(m ³ /min)	(L/sec)	(USGPM)	
		26-May-05	1:10	0.25	1.94	0.98	0.96	0.380	0.296	17.757	295.9	4,690.8	
		Temp.	Cond.	PH									
		<i>Intervals >>></i>											
		<i>Totals</i>	<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>	<i>8</i>	<i>9</i>	<i>10</i>	<i>11</i>
10			1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	
Width (m)	0.960		0.07	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.09	
Depth (m)	Enter >>>>>		0.26	0.24	0.23	0.22	0.22	1.90	0.23	0.21	0.20	0.20	
Area (m2)	0.380		0.018	0.024	0.023	0.022	0.022	0.190	0.023	0.021	0.020	0.018	0.000
Velocity (m/sec)	Enter >>>>>		1.16	1.04	1.05	0.67	0.90	0.78	0.72	0.75	0.51	0.08	
Discharge (m3/sec)	0.296		0.021	0.025	0.024	0.015	0.020	0.148	0.017	0.016	0.010	0.001	0.000

Alexco Resource Corp.
Brewery Creek Mine
Water Flows

STATION ID:	BC-PH	Date	Time	Staff Gauge (m)	Left Bank (m)	Right Bank (m)	Width (m)	Area (m ²)	Discharge			
									(m ³ /sec)	(m ³ /min)	(L/sec)	(USGPM)
		27-May-05	1:10	0.25	1.94	0.98	0.96	0.351	0.273	16.365	272.8	4,323.3
		Temp.	Cond.	PH								
10	Intervals >>>	1	2	3	4	5	6	7	8	9	10	11
	Totals	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	
Width (m)	0.960	0.07	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.09	
Depth (m)	Enter >>>>>	0.23	0.23	0.21	1.85	0.18	0.19	0.19	0.18	0.18	0.17	
Area (m2)	0.351	0.016	0.023	0.021	0.185	0.018	0.019	0.019	0.018	0.018	0.015	0.000
Velocity (m/sec)	Enter >>>>>	1.22	0.96	0.93	0.82	0.91	0.67	0.68	0.66	0.33	0.05	
Discharge (m3/sec)	0.273	0.020	0.022	0.020	0.152	0.016	0.013	0.013	0.012	0.006	0.001	0.000

STATION ID:	BC-PH	Date	Time	Staff Gauge (m)	Left Bank (m)	Right Bank (m)	Width (m)	Area (m ²)	Discharge			
									(m ³ /sec)	(m ³ /min)	(L/sec)	(USGPM)
		30-May-05	1:06	0.23	1.96	0.98	0.98	0.153	0.037	2.224	37.1	587.6
		Temp.	Cond.	PH								
10	Intervals >>>	1	2	3	4	5	6	7	8	9	10	11
	Totals	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	0.13	1.90	
Width (m)	0.980	0.07	0.10	0.10	0.10	0.10	0.10	0.10	-0.74	0.10	0.95	
Depth (m)	Enter >>>>>	0.21	0.20	0.23	0.20	0.18	0.16	0.18	0.19	0.17	0.16	
Area (m2)	0.153	0.015	0.020	0.023	0.020	0.018	0.016	0.018	-0.140	0.017	0.147	0.000
Velocity (m/sec)	Enter >>>>>	1.14	0.99	0.92	0.80	0.91	0.56	0.55	0.58	0.32	0.03	
Discharge (m3/sec)	0.037	0.017	0.020	0.021	0.016	0.016	0.009	0.010	-0.081	0.005	0.004	0.000

STATION ID:	BC-PH	Date	Time	Staff Gauge (m)	Left Bank (m)	Right Bank (m)	Width (m)	Area (m ²)	Discharge			
									(m ³ /sec)	(m ³ /min)	(L/sec)	(USGPM)
		31-May-05	11:30	0.24	1.94	0.98	1.05	0.186	0.128	7.686	128.1	2,030.4735
		Temp.	Cond.	PH								
		n/a										
10	Intervals >>>	1	2	3	4	5	6	7	8	9	10	11
	Totals	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	
Width (m)	0.960	0.07	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.09	
Depth (m)	Enter >>>>>	0.21	0.22	0.23	0.20	0.20	0.19	0.16	0.19	0.16	0.18	
Area (m2)	0.186	0.015	0.022	0.023	0.020	0.020	0.019	0.016	0.019	0.016	0.016	0.000
Velocity (m/sec)	Enter >>>>>	1.09	0.87	0.95	0.85	0.91	0.57	0.51	0.51	0.4	0.05	
Discharge (m3/sec)	0.128	0.016	0.019	0.022	0.017	0.018	0.011	0.008	0.010	0.006	0.001	0.000

Alexco Resource Corp.
Brewery Creek Mine
Water Flows

STATION ID:	BC-PH	Date	Time	Staff Gauge	Left Bank	Right Bank	Width	Area	Discharge				
				(m)	(m)	(m)	(m)	(m ²)	(m ³ /sec)	(m ³ /min)	(L/sec)	(USGPM)	
		1-Jun-05	1:09	0.23	1.94	0.98	0.96	0.181	0.112	6.726	112.1	1,776.9	
		Temp.	Cond.	PH									
		<i>Intervals >>></i>											
		<i>Totals</i>	<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>	<i>8</i>	<i>9</i>	<i>10</i>	<i>11</i>
10			1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	
Width (m)	0.960	0.07	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.09	
Depth (m)	Enter >>>>>	0.20	0.20	0.21	0.21	0.20	0.18	0.18	0.17	0.17	0.17	0.18	
Area (m2)	0.181	0.014	0.020	0.021	0.021	0.020	0.018	0.018	0.017	0.017	0.016	0.016	0.000
Velocity (m/sec)	Enter >>>>>	1.05	0.94	0.83	0.81	0.76	0.48	0.39	0.47	0.29	0.05		
Discharge (m3/sec)	0.112	0.015	0.019	0.017	0.017	0.015	0.009	0.007	0.008	0.005	0.001	0.001	0.000

STATION ID:	BC-PH	Date	Time	Staff Gauge	Left Bank	Right Bank	Width	Area	Discharge				
				(m)	(m)	(m)	(m)	(m ²)	(m ³ /sec)	(m ³ /min)	(L/sec)	(USGPM)	
		2-Jun-05	1:10	0.24	1.94	0.98	0.96	0.195	0.121	7.268	121.1	1,920.0	
		Temp.	Cond.	PH									
		<i>Intervals >>></i>											
		<i>Totals</i>	<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>	<i>8</i>	<i>9</i>	<i>10</i>	<i>11</i>
10			1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	
Width (m)	0.960	0.07	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.09	
Depth (m)	Enter >>>>>	0.22	0.21	0.22	0.21	0.21	0.22	0.20	0.20	0.18	0.18	0.18	
Area (m2)	0.195	0.015	0.021	0.022	0.021	0.021	0.022	0.020	0.020	0.018	0.016	0.016	0.000
Velocity (m/sec)	Enter >>>>>	1.05	0.94	0.92	0.71	0.76	0.49	0.41	0.53	0.29	0.03		
Discharge (m3/sec)	0.121	0.016	0.020	0.020	0.015	0.016	0.011	0.008	0.011	0.005	0.000	0.000	0.000

STATION ID:	BC-PH	Date	Time	Staff Gauge	Left Bank	Right Bank	Width	Area	Discharge				
				(m)	(m)	(m)	(m)	(m ²)	(m ³ /sec)	(m ³ /min)	(L/sec)	(USGPM)	
		3-Jun-05	1:19	0.25	1.94	0.98	0.96	0.216	0.164	9.848	164.1	2,601.5	
		Temp.	Cond.	PH									
		<i>Intervals >>></i>											
		<i>Totals</i>	<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>	<i>8</i>	<i>9</i>	<i>10</i>	<i>11</i>
10			1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	
Width (m)	0.960	0.07	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.09	
Depth (m)	Enter >>>>>	0.25	0.26	0.25	0.23	0.23	0.21	0.22	0.21	0.20	0.20	0.20	
Area (m2)	0.216	0.018	0.026	0.025	0.023	0.023	0.021	0.022	0.021	0.020	0.018	0.018	0.000
Velocity (m/sec)	Enter >>>>>	1.19	0.99	0.88	0.80	1.02	0.74	0.68	0.65	0.39	0.1		
Discharge (m3/sec)	0.164	0.021	0.026	0.022	0.018	0.023	0.016	0.015	0.014	0.008	0.002	0.002	0.000

Alexco Resource Corp.
Brewery Creek Mine
Water Flows

STATION ID:	BC-PH	Date	Time	Staff Gauge (m)	Left Bank (m)	Right Bank (m)	Width (m)	Area (m ²)	Discharge			
									(m ³ /sec)	(m ³ /min)	(L/sec)	(USGPM)
		6-Jun-05	1:07	0.23	1.94	0.98	0.96	0.189	0.112	6.737	112.3	1,779.7
		Temp.	Cond.	PH								
		Intervals >>>										
	10	Totals	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90
Width (m)	0.960	0.07	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.09
Depth (m)	Enter >>>>>	0.21	0.22	0.22	0.21	0.21	0.19	0.18	0.20	0.18	0.16	
Area (m2)	0.189	0.015	0.022	0.022	0.021	0.021	0.019	0.018	0.020	0.018	0.014	0.000
Velocity (m/sec)		0.98	0.80	0.76	0.79	0.88	0.40	0.37	0.45	0.28	0.05	
Discharge (m3/sec)	0.112	0.014	0.018	0.017	0.016	0.018	0.008	0.007	0.009	0.005	0.001	0.000

STATION ID:	BC-PH	Date	Time	Staff Gauge (m)	Left Bank (m)	Right Bank (m)	Width (m)	Area (m ²)	Discharge			
									(m ³ /sec)	(m ³ /min)	(L/sec)	(USGPM)
		7-Jun-05	1:00	0.24	1.94	0.98	0.96	0.189	0.125	7.500	125.0	1,981.2
		Temp.	Cond.	PH								
		Intervals >>>										
	10	Totals	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90
Width (m)	0.860	0.07	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.09	
Depth (m)	Enter >>>>>	0.25	0.24	0.23	0.23	0.24	0.21	0.21	0.21	0.20	0.20	0.19
Area (m2)	0.189	0.018	0.024	0.000	0.023	0.024	0.021	0.021	0.021	0.020	0.018	0.000
Velocity (m/sec)	Enter >>>>>	1.14	0.94	0.86	0.79	0.81	0.64	0.59	0.54	0.35	0.04	
Discharge (m3/sec)	0.125	0.020	0.023	0.000	0.018	0.019	0.013	0.012	0.011	0.007	0.001	0.000

STATION ID:	BC-PH	Date	Time	Staff Gauge (m)	Left Bank (m)	Right Bank (m)	Width (m)	Area (m ²)	Discharge			
									(m ³ /sec)	(m ³ /min)	(L/sec)	(USGPM)
		8-Jun-05	1:17	0.24	1.94	0.98	0.96	0.201	0.126	7.581	126.4	2,002.8
		Temp.	Cond.	PH								
		Intervals >>>										
	10	Totals	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90
Width (m)	0.960	0.07	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.09	
Depth (m)	Enter >>>>>	0.24	0.23	0.23	0.22	0.23	0.20	0.20	0.21	0.18	0.17	
Area (m2)	0.201	0.017	0.023	0.023	0.022	0.023	0.020	0.020	0.021	0.018	0.015	0.000
Velocity (m/sec)	Enter >>>>>	1.03	0.78	0.82	0.66	0.88	0.54	0.57	0.49	0.23	0.08	
Discharge (m3/sec)	0.126	0.017	0.018	0.019	0.015	0.020	0.011	0.011	0.010	0.004	0.001	0.000

Alexco Resource Corp.
Brewery Creek Mine
Water Flows

STATION ID:	BC-PH	Date	Time	Staff Gauge	Left Bank	Right Bank	Width	Area	Discharge			
				(m)	(m)	(m)	(m)	(m ²)	(m ³ /sec)	(m ³ /min)	(L/sec)	(USGPM)
		9-Jun-05	4:18	0.23	1.94	0.98	0.96	0.171	0.103	6.209	103.5	1,640.2
		Temp.	Cond.	PH								
		Intervals >>>										
		1	2	3	4	5	6	7	8	9	10	11
		Totals	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90
10	Width (m)	0.960	0.07	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.09	
	Depth (m)	Enter >>>>>	0.20	0.19	0.20	0.16	0.20	0.17	0.18	0.16	0.16	
	Area (m2)	0.171	0.014	0.019	0.020	0.016	0.020	0.017	0.018	0.017	0.016	0.014
	Velocity (m/sec)	Enter >>>>>	1.00	0.92	0.94	0.74	0.80	0.41	0.36	0.50	0.2	0.04
	Discharge (m3/sec)	0.103	0.014	0.017	0.019	0.012	0.016	0.007	0.006	0.009	0.003	0.001

STATION ID:	BC-PH	Date	Time	Staff Gauge	Left Bank	Right Bank	Width	Area	Discharge			
				(m)	(m)	(m)	(m)	(m ²)	(m ³ /sec)	(m ³ /min)	(L/sec)	(USGPM)
		10-Jun-05	4:15	0.21	1.94	0.98	0.96	0.177	0.103	6.153	102.6	1,625.6
		Temp.	Cond.	PH								
		Intervals >>>										
		1	2	3	4	5	6	7	8	9	10	11
		Totals	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90
10	Width (m)	0.960	0.07	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.09	
	Depth (m)	Enter >>>>>	0.19	0.20	0.22	0.19	0.20	0.18	0.18	0.17	0.16	0.15
	Area (m2)	0.177	0.013	0.020	0.022	0.019	0.020	0.018	0.018	0.017	0.016	0.014
	Velocity (m/sec)	Enter >>>>>	1.01	0.93	0.77	0.82	0.66	0.34	0.39	0.43	0.23	0.05
	Discharge (m3/sec)	0.103	0.013	0.019	0.017	0.016	0.013	0.006	0.007	0.007	0.004	0.001

STATION ID:	BC-PH	Date	Time	Staff Gauge	Left Bank	Right Bank	Width	Area	Discharge			
				(m)	(m)	(m)	(m)	(m ²)	(m ³ /sec)	(m ³ /min)	(L/sec)	(USGPM)
		13-Jun-05	1:09	0.30	1.94	0.98	1.15	0.274	0.322	19.315	321.9	5,102.3924
		Temp.	Cond.	PH								
			n/a									
		Intervals >>>										
		1	2	3	4	5	6	7	8	9	10	11
		Totals	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90
10	Width (m)	0.960	0.07	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.09	
	Depth (m)	Enter >>>>>	0.27	0.32	0.36	0.36	0.25	0.29	0.26	0.27	0.24	0.23
	Area (m2)	0.274	0.019	0.032	0.036	0.036	0.025	0.029	0.026	0.027	0.024	0.021
	Velocity (m/sec)	Enter >>>>>	1.40	1.34	1.47	1.43	1.21	1.08	0.86	0.80	1.22	0.68
	Discharge (m3/sec)	0.322	0.026	0.043	0.053	0.051	0.030	0.031	0.022	0.022	0.029	0.014

Alexco Resource Corp.
Brewery Creek Mine
Water Flows

STATION ID:	BC-PH	Date	Time	Staff Gauge (m)	Left Bank (m)	Right Bank (m)	Width (m)	Area (m ²)	Discharge				
									(m ³ /sec)	(m ³ /min)	(L/sec)	(USGPM)	
		13-Jun-05	1:16	0.29	1.94	0.98	0.96	0.245	0.261	15.660	261.0	4,136.9	
		Temp.	Cond.	PH									
		<i>Intervals >>></i>											
	10	Totals	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	
	Width (m)	0.960	0.07	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.09	
	Depth (m)	Enter >>>>	0.27	0.30	0.32	0.25	0.26	0.24	0.23	0.23	0.24	0.21	
	Area (m2)	0.245	0.019	0.030	0.032	0.025	0.026	0.024	0.023	0.023	0.024	0.019	0.000
	Velocity (m/sec)	Enter >>>>	1.33	1.07	1.17	1.45	1.16	1.14	0.85	0.74	1.2	0.38	
	Discharge (m3/sec)	0.261	0.025	0.032	0.037	0.036	0.030	0.027	0.020	0.017	0.029	0.007	0.000

STATION ID:	BC-PH	Date	Time	Staff Gauge (m)	Left Bank (m)	Right Bank (m)	Width (m)	Area (m ²)	Discharge				
									(m ³ /sec)	(m ³ /min)	(L/sec)	(USGPM)	
		14-Jun-05	1:16	0.29	1.94	0.98	0.96	0.245	0.261	15.660	261.0	4,136.9	
		Temp.	Cond.	PH									
		<i>Intervals >>></i>											
	10	Totals	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	
	Width (m)	0.960	0.07	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.09	
	Depth (m)	Enter >>>>	0.27	0.30	0.32	0.25	0.26	0.24	0.23	0.23	0.24	0.21	
	Area (m2)	0.245	0.019	0.030	0.032	0.025	0.026	0.024	0.023	0.023	0.024	0.019	0.000
	Velocity (m/sec)	Enter >>>>	1.33	1.07	1.17	1.45	1.16	1.14	0.85	0.74	1.2	0.38	
	Discharge (m3/sec)	0.261	0.025	0.032	0.037	0.036	0.030	0.027	0.020	0.017	0.029	0.007	0.000

STATION ID:	BC-PH	Date	Time	Staff Gauge (m)	Left Bank (m)	Right Bank (m)	Width (m)	Area (m ²)	Discharge				
									(m ³ /sec)	(m ³ /min)	(L/sec)	(USGPM)	
		15-Jun-05	1:10	0.25	1.94	0.98	0.96	0.192	0.178	10.666	177.8	2,817.5	
		Temp.	Cond.	PH									
		1.0											
		<i>Intervals >>></i>											
	10	Totals	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	
	Width (m)	0.960	0.07	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.09	
	Depth (m)	Enter >>>>	0.24	0.26	0.24	0.18	0.19	0.21	0.18	0.16	0.18	0.17	
	Area (m2)	0.192	0.017	0.026	0.024	0.018	0.019	0.021	0.018	0.016	0.018	0.015	0.000
	Velocity (m/sec)	Enter >>>>	1.33	1.07	1.05	1.15	1.04	0.84	0.67	0.66	0.93	0.35	
	Discharge (m3/sec)	0.178	0.022	0.028	0.025	0.021	0.020	0.017	0.012	0.011	0.017	0.005	0.000

Alexco Resource Corp.
Brewery Creek Mine
Water Flows

STATION ID:	BC-PH	Date	Time	Staff Gauge	Left Bank	Right Bank	Width	Area	Discharge				
				(m)	(m)	(m)	(m)	(m ²)	(m ³ /sec)	(m ³ /min)	(L/sec)	(USGPM)	
		16-Jun-05	1:04	0.23	1.94	0.98	0.96	0.166	0.143	8.594	143.2	2,270.4	
		Temp.	Cond.	PH									
		n/a											
		<i>Intervals >>></i>	<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>	<i>8</i>	<i>9</i>	<i>10</i>	<i>11</i>
10		<i>Totals</i>	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	
Width (m)		0.960	0.07	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.09	
Depth (m)		Enter >>>>>	0.20	0.19	0.20	0.15	0.17	0.19	0.18	0.16	0.16	0.14	
Area (m2)		0.166	0.014	0.019	0.020	0.015	0.017	0.019	0.018	0.016	0.016	0.013	0.000
Velocity (m/sec)		Enter >>>>>	1.24	1.09	0.97	1.09	0.91	0.66	0.65	0.77	0.81	0.39	
Discharge (m3/sec)		0.143	0.017	0.021	0.019	0.016	0.015	0.013	0.012	0.012	0.013	0.005	0.000

STATION ID:	BC-PH	Date	Time	Staff Gauge	Left Bank	Right Bank	Width	Area	Discharge				
				(m)	(m)	(m)	(m)	(m ²)	(m ³ /sec)	(m ³ /min)	(L/sec)	(USGPM)	
		17-Jun-05	1:02	0.21	1.94	0.98	0.96	0.157	0.125	7.509	125.1	1,983.6	
		Temp.	Cond.	PH									
		<i>Intervals >>></i>	<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>	<i>8</i>	<i>9</i>	<i>10</i>	<i>11</i>
10		<i>Totals</i>	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	
Width (m)		0.960	0.07	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.09	
Depth (m)		Enter >>>>>	0.19	0.19	0.20	0.14	0.17	0.16	0.15	0.16	0.15	0.14	
Area (m2)		0.157	0.013	0.019	0.020	0.014	0.017	0.016	0.015	0.016	0.015	0.013	0.000
Velocity (m/sec)		Enter >>>>>	1.18	0.87	0.85	1.07	0.88	0.67	0.62	0.65	0.74	0.38	
Discharge (m3/sec)		0.125	0.016	0.017	0.017	0.015	0.015	0.011	0.009	0.010	0.011	0.005	0.000

STATION ID:	BC-PH	Date	Time	Staff Gauge	Left Bank	Right Bank	Width	Area	Discharge				
				(m)	(m)	(m)	(m)	(m ²)	(m ³ /sec)	(m ³ /min)	(L/sec)	(USGPM)	
		20-Jun-05	3:35	0.23	1.94	0.98	0.96	0.173	0.165	9.909	165.1	2,617.6	
		Temp.	Cond.	PH									
		<i>Intervals >>></i>	<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>	<i>8</i>	<i>9</i>	<i>10</i>	<i>11</i>
10		<i>Totals</i>	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	
Width (m)		0.960	0.07	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.09	
Depth (m)		Enter >>>>>	0.21	0.20	0.20	0.18	0.19	0.18	0.17	0.16	0.16	0.16	
Area (m2)		0.173	0.015	0.020	0.020	0.018	0.019	0.018	0.017	0.016	0.016	0.014	0.000
Velocity (m/sec)		Enter >>>>>	1.11	1.21	1.23	1.09	1.05	0.80	0.68	0.86	0.81	0.54	
Discharge (m3/sec)		0.165	0.016	0.024	0.025	0.020	0.020	0.014	0.012	0.014	0.013	0.008	0.000

Alexco Resource Corp.
Brewery Creek Mine
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STATION ID:	BC-PH	Date	Time	Staff Gauge	Left Bank	Right Bank	Width	Area	Discharge				
				(m)	(m)	(m)	(m)	(m ²)	(m ³ /sec)	(m ³ /min)	(L/sec)	(USGPM)	
		21-Jun-05	1:08	0.22	1.94	0.98	0.96	0.306	0.216	12.942	215.7	3,418.8	
		Temp.	Cond.	PH									
		<i>Intervals >>></i>											
		<i>Totals</i>	<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>	<i>8</i>	<i>9</i>	<i>10</i>	<i>11</i>
10		1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90		
Width (m)	0.960	0.07	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.09		
Depth (m)	Enter >>>>	0.20	0.20	0.20	0.15	0.16	0.17	0.15	1.60	0.15	0.15		
Area (m2)	0.306	0.014	0.020	0.020	0.015	0.016	0.017	0.015	0.160	0.015	0.014	0.000	
Velocity (m/sec)	Enter >>>>	1.17	0.98	0.99	1.11	0.94	0.65	0.54	0.58	0.68	0.45		
Discharge (m3/sec)	0.216	0.016	0.020	0.020	0.017	0.015	0.011	0.008	0.093	0.010	0.006	0.000	

STATION ID:	BC-PH	Date	Time	Staff Gauge	Left Bank	Right Bank	Width	Area	Discharge				
				(m)	(m)	(m)	(m)	(m ²)	(m ³ /sec)	(m ³ /min)	(L/sec)	(USGPM)	
		24-Jun-05	1:38	0.20	1.94	0.98	0.96	0.147	0.102	6.125	102.1	1,618.0	
		Temp.	Cond.	PH									
		<i>Intervals >>></i>											
		<i>Totals</i>	<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>	<i>8</i>	<i>9</i>	<i>10</i>	<i>11</i>
10		1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90		
Width (m)	0.960	0.07	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.09		
Depth (m)	Enter >>>>	0.18	0.17	0.21	0.16	0.15	0.14	0.14	0.13	0.14	0.13		
Area (m2)	0.147	0.012	0.017	0.021	0.016	0.015	0.014	0.014	0.013	0.014	0.012	0.000	
Velocity (m/sec)	Enter >>>>	1.08	0.83	0.79	0.81	0.84	0.55	0.43	0.58	0.57	0.32		
Discharge (m3/sec)	0.102	0.013	0.014	0.016	0.013	0.013	0.008	0.006	0.008	0.008	0.004	0.000	

STATION ID:	BC-PH	Date	Time	Staff Gauge	Left Bank	Right Bank	Width	Area	Discharge				
				(m)	(m)	(m)	(m)	(m ²)	(m ³ /sec)	(m ³ /min)	(L/sec)	(USGPM)	
		27-Jun-05	1:52	0.19	1.94	0.98	0.96	0.136	0.088	5.300	88.3	1,400.2	
		Temp.	Cond.	PH									
		<i>Intervals >>></i>											
		<i>Totals</i>	<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>	<i>8</i>	<i>9</i>	<i>10</i>	<i>11</i>
10		1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90		
Width (m)	0.960	0.07	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.09		
Depth (m)	Enter >>>>	0.12	0.16	0.19	0.15	0.14	0.15	0.13	0.12	0.12	0.13		
Area (m2)	0.136	0.008	0.016	0.019	0.015	0.014	0.015	0.013	0.012	0.012	0.012	0.000	
Velocity (m/sec)	Enter >>>>	0.90	1.01	0.77	0.73	0.71	0.49	0.45	0.55	0.57	0.21		
Discharge (m3/sec)	0.088	0.008	0.016	0.015	0.011	0.010	0.007	0.006	0.007	0.007	0.002	0.000	

Alexco Resource Corp.
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STATION ID:	BC-PH	Date	Time	Staff Gauge	Left Bank	Right Bank	Width	Area	Discharge			
				(m)	(m)	(m)	(m)	(m ²)	(m ³ /sec)	(m ³ /min)	(L/sec)	(USGPM)
		28-Jun-05	1:06	0.18	1.94	0.98	0.96	0.140	0.086	5.164	86.1	1,364.1
		Temp.	Cond.	PH								
10	Intervals >>>	1	2	3	4	5	6	7	8	9	10	11
	Totals	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	
Width (m)	0.960	0.07	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.09	
Depth (m)	Enter >>>>>	0.18	0.18	0.16	0.17	0.15	0.14	0.12	0.11	0.14	0.12	
Area (m2)	0.140	0.013	0.018	0.016	0.017	0.015	0.014	0.012	0.011	0.014	0.011	0.000
Velocity (m/sec)	Enter >>>>>	0.85	0.88	0.89	0.62	0.77	0.46	0.40	0.39	0.40	0.19	
Discharge (m3/sec)	0.086	0.011	0.016	0.014	0.011	0.012	0.006	0.005	0.004	0.006	0.002	0.000

STATION ID:	BC-PH	Date	Time	Staff Gauge	Left Bank	Right Bank	Width	Area	Discharge			
				(m)	(m)	(m)	(m)	(m ²)	(m ³ /sec)	(m ³ /min)	(L/sec)	(USGPM)
		29-Jun-05	1:14	0.18	1.94	0.98	0.96	0.119	0.070	4.218	70.3	1,114.3
		Temp.	Cond.	PH								
10	Intervals >>>	1	2	3	4	5	6	7	8	9	10	11
	Totals	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	
Width (m)	0.860	0.07	0.10	0.10		0.10	0.10	0.10	0.10	0.10	0.09	
Depth (m)	Enter >>>>>	0.18	0.18	0.15	0.15	0.14	0.14	0.12	0.12	0.13	0.10	
Area (m2)	0.119	0.012	0.018	0.015	0.000	0.014	0.014	0.012	0.012	0.013	0.009	0.000
Velocity (m/sec)	Enter >>>>>	0.75	0.89	0.83	0.76	0.67	0.48	0.44	0.42	0.43	0.12	
Discharge (m3/sec)	0.070	0.009	0.016	0.012	0.000	0.009	0.007	0.005	0.005	0.006	0.001	0.000

Alexco Resource Corp.
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<i>STATION ID:</i>	BC-PH	Date	Time	Staff Gauge	Left Bank	Right Bank	Width	Area	Discharge					
				(m)	(m)	(m)	(m)	(m ²)	(m ³ /sec)	(m ³ /min)	(L/sec)	(USGPM)		
		30-Jun-05	1:30	0.19	1.94	0.98	0.96	0.131	0.075	4.502	75.0	1,189.4		
		Temp.	Cond.	PH										
		<i>Intervals >>></i>		<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>	<i>8</i>	<i>9</i>	<i>10</i>	<i>11</i>
		<i>Totals</i>		1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	
	10	Width (m)	0.960	0.07	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.09	
		Depth (m)	Enter >>>>>	0.17	0.17	0.16	0.14	0.13	0.13	0.14	0.12	0.12	0.10	
		Area (m2)	0.131	0.012	0.017	0.016	0.014	0.013	0.013	0.014	0.012	0.012	0.009	0.000
		Velocity (m/sec)	Enter >>>>>	0.79	0.82	0.80	0.62	0.61	0.47	0.43	0.47	0.29	0.16	
		Discharge (m3/sec)	0.075	0.009	0.014	0.012	0.009	0.008	0.006	0.006	0.006	0.003	0.001	0.000

Alexco Resource Corp.
Brewery Creek Mine
Water Flows

STATION ID:	BC-PH	Date	Time	Staff Gauge	Left Bank	Right Bank	Width	Area	Discharge			
				(m)	(m)	(m)	(m)	(m ²)	(m ³ /sec)	(m ³ /min)	(L/sec)	(USGPM)
		4-Jul-05	1:24	0.26	1.94	0.98	0.96	0.204	0.200	12.004	200.1	3,171.1
		Temp.	Cond.	PH								
		Intervals >>>										
		1	2	3	4	5	6	7	8	9	10	11
		Totals	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90
10	Width (m)	0.960	0.07	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.09	
	Depth (m)	Enter >>>>>	0.26	0.27	0.24	0.21	0.20	0.22	0.21	0.19	0.16	0.17
	Area (m2)	0.204	0.018	0.027	0.024	0.021	0.020	0.022	0.021	0.019	0.016	0.015
	Velocity (m/sec)	Enter >>>>>	1.07	1.29	1.23	1.08	1.04	0.93	0.70	0.90	0.87	0.43
	Discharge (m3/sec)	0.200	0.019	0.035	0.030	0.023	0.021	0.020	0.015	0.017	0.014	0.007
												0.000

STATION ID:	BC-PH	Date	Time	Staff Gauge	Left Bank	Right Bank	Width	Area	Discharge			
				(m)	(m)	(m)	(m)	(m ²)	(m ³ /sec)	(m ³ /min)	(L/sec)	(USGPM)
		5-Jul-05	1:16	0.22	1.94	0.98	0.96	0.161	0.143	8.574	142.9	2,265.1
		Temp.	Cond.	PH								
		Intervals >>>										
		1	2	3	4	5	6	7	8	9	10	11
		Totals	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90
10	Width (m)	0.960	0.07	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.09	
	Depth (m)	Enter >>>>>	0.19	0.18	0.18	0.19	0.18	0.17	0.16	0.15	0.15	0.14
	Area (m2)	0.161	0.013	0.018	0.018	0.019	0.018	0.017	0.016	0.015	0.015	0.013
	Velocity (m/sec)	Enter >>>>>	1.14	1.22	1.16	0.97	0.94	0.62	0.61	0.74	0.77	0.57
	Discharge (m3/sec)	0.143	0.015	0.022	0.020	0.018	0.017	0.011	0.010	0.011	0.012	0.007
												0.000

STATION ID:	BC-PH	Date	Time	Staff Gauge	Left Bank	Right Bank	Width	Area	Discharge			
				(m)	(m)	(m)	(m)	(m ²)	(m ³ /sec)	(m ³ /min)	(L/sec)	(USGPM)
		6-Jul-05	1:17	0.21	1.94	0.98	0.96	0.143	0.117	7.030	117.2	1,857.2
		Temp.	Cond.	PH								
		Intervals >>>										
		1	2	3	4	5	6	7	8	9	10	11
		Totals	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90
10	Width (m)	0.960	0.07	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.09	
	Depth (m)	Enter >>>>>	0.16	0.17	0.17	0.16	0.15	0.15	0.14	0.13	0.14	0.12
	Area (m2)	0.143	0.011	0.017	0.017	0.016	0.015	0.015	0.014	0.013	0.014	0.011
	Velocity (m/sec)	Enter >>>>>	1.12	1.15	1.03	0.98	0.88	0.57	0.56	0.59	0.69	0.46
	Discharge (m3/sec)	0.117	0.013	0.020	0.018	0.016	0.013	0.009	0.008	0.008	0.010	0.005
												0.000

Alexco Resource Corp.
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STATION ID:	BC-1	Date	Time	Staff Gauge	Left Bank	Right Bank	Width	Area	Discharge			
				(m)	(m)	(m)	(m)	(m ²)	(m ³ /sec)	(m ³ /min)	(L/sec)	(USGPM)
		29-Jul-05	4:00		2.40	0.24	2.16	0.310	0.168	10.069	167.8	2,660.0
		Temp.	Cond.	PH								
		<i>Intervals >>></i>										
		<i>Totals</i>										
11												
Width (m)	2.160	0.16	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.15	0.25
Depth (m)	Enter >>>>>	0.23	0.15	0.14	0.13	0.12	0.14	0.11	0.11	0.12	0.16	0.18
Area (m2)	0.310	0.037	0.030	0.028	0.026	0.024	0.028	0.022	0.022	0.024	0.024	0.045
Velocity (m/sec)	Enter >>>>>	0.55	0.63	0.60	0.66	0.64	0.62	0.68	0.66	0.65	0.48	0.12
Discharge (m3/sec)	0.168	0.020	0.019	0.017	0.017	0.015	0.017	0.015	0.015	0.016	0.012	0.005

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STATION ID:	BC-PH	Date	Time	Staff Gauge	Left Bank	Right Bank	Width	Area	Discharge					
				(m)	(m)	(m)	(m)	(m ²)	(m ³ /sec)	(m ³ /min)	(L/sec)	(USGPM)		
		1-Aug-05	12:25	0.55	2.10	0.95	1.15	0.585	0.879	52.748	879.1	13,934.5		
		Temp.	0.56	PH										
		Intervals >>>												
		1	2	3	4	5	6	7	8	9	10	11		
		Totals	1.05	1.15	1.25	1.35	1.45	1.55	1.65	1.75	1.85	1.95	2.05	
11		Width (m)	1.150	0.15	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	
		Depth (m)	Enter >>>>>	0.52	0.56	0.55	0.53	0.52	0.49	0.44	0.50	0.49	0.50	
		Area (m2)	0.585	0.078	0.056	0.055	0.053	0.052	0.049	0.044	0.050	0.049	0.050	
		Velocity (m/sec)	1.50	1.54	1.52	1.71	1.73	1.60	1.47	1.32	1.38	1.5	1.23	
		Discharge (m3/sec)	0.879	0.117	0.086	0.084	0.091	0.090	0.078	0.065	0.066	0.068	0.073	0.062

STATION ID:	BC-PH	Date	Time	Staff Gauge	Left Bank	Right Bank	Width	Area	Discharge				
				(m)	(m)	(m)	(m)	(m ²)	(m ³ /sec)	(m ³ /min)	(L/sec)	(USGPM)	
		3-Aug-05	2:00	0.24	2.10	0.85	1.25	0.229	0.203	12.192	203.2	3,220.8	
		Temp.	Cond.	PH									
		Intervals >>>											
		1	2	3	4	5	6	7	8	9	10	11	
		Totals	0.90	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90
11		Width (m)	1.150	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.25
		Depth (m)	Enter >>>>>	0.19	0.22	0.25	0.24	0.21	0.22	0.20	0.19	0.19	0.17
		Area (m2)	0.229	0.019	0.022	0.000	0.024	0.021	0.022	0.020	0.019	0.019	0.043
		Velocity (m/sec)	Enter >>>>>	1.01	1.04	1.02	1.17	1.03	0.89	0.74	0.80	0.98	0.56
		Discharge (m3/sec)	0.203	0.019	0.023	0.000	0.028	0.022	0.020	0.015	0.016	0.019	0.024

STATION ID:	BC-PH	Date	Time	Staff Gauge	Left Bank	Right Bank	Width	Area	Discharge				
				(m)	(m)	(m)	(m)	(m ²)	(m ³ /sec)	(m ³ /min)	(L/sec)	(USGPM)	
		4-Aug-05	1:09	0.23	1.94	0.82	1.12	0.236	0.207	12.412	206.9	3,278.9	
		Temp.	Cond.	PH									
		Intervals >>>											
		1	2	3	4	5	6	7	8	9	10	11	
		Totals	0.90	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90
11		Width (m)	1.120	0.13	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.09
		Depth (m)	Enter >>>>>	0.23	0.26	0.21	0.20	0.21	0.22	0.20	0.23	0.19	0.18
		Area (m2)	0.236	0.030	0.026	0.021	0.020	0.021	0.022	0.020	0.023	0.019	0.018
		Velocity (m/sec)	Enter >>>>>	1.07	1.09	1.14	1.00	0.95	0.85	0.73	0.78	0.91	0.55
		Discharge (m3/sec)	0.207	0.032	0.028	0.024	0.020	0.020	0.019	0.015	0.018	0.017	0.010

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STATION ID:	BC-PH	Date	Time	Staff Gauge (m)	Left Bank (m)	Right Bank (m)	Width (m)	Area (m ²)	Discharge			
									(m ³ /sec)	(m ³ /min)	(L/sec)	(USGPM)
		5-Aug-05	3:09	0.21	1.94	0.82	1.12	0.221	0.180	10.774	179.6	2,846.1
		Temp.	Cond.	PH								
11	Intervals >>>	1	2	3	4	5	6	7	8	9	10	11
		Totals	0.90	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80
Width (m)	1.120	0.13	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.09
Depth (m)	Enter >>>>>	0.21	0.23	0.23	0.20	0.22	0.21	0.20	0.19	0.16	0.16	0.15
Area (m2)	0.221	0.027	0.023	0.023	0.020	0.022	0.021	0.020	0.019	0.016	0.016	0.014
Velocity (m/sec)	Enter >>>>>	1.01	0.91	1.01	0.90	0.85	0.70	0.63	0.73	0.92	0.75	0.24
Discharge (m3/sec)	0.180	0.028	0.021	0.023	0.018	0.019	0.015	0.013	0.014	0.015	0.012	0.003

STATION ID:	BC-PH	Date	Time	Staff Gauge (m)	Left Bank (m)	Right Bank (m)	Width (m)	Area (m ²)	Discharge			
									(m ³ /sec)	(m ³ /min)	(L/sec)	(USGPM)
		8-Aug-05	1:25	0.21	1.94	0.82	1.12	0.223	0.168	10.088	168.1	2,664.9
		Temp.	Cond.	PH								
11	Intervals >>>	1	2	3	4	5	6	7	8	9	10	11
		Totals	0.90	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80
Width (m)	1.120	0.13	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.09
Depth (m)	Enter >>>>>	0.23	0.21	0.22	0.19	0.20	0.21	0.20	0.20	0.19	0.16	0.17
Area (m2)	0.223	0.030	0.021	0.022	0.019	0.020	0.021	0.020	0.020	0.019	0.016	0.015
Velocity (m/sec)	Enter >>>>>	0.73	0.88	0.96	0.97	0.84	0.79	0.77	0.67	0.78	0.57	0.14
Discharge (m3/sec)	0.168	0.022	0.018	0.021	0.018	0.017	0.017	0.015	0.013	0.015	0.009	0.002

STATION ID:	BC-PH	Date	Time	Staff Gauge (m)	Left Bank (m)	Right Bank (m)	Width (m)	Area (m ²)	Discharge			
									(m ³ /sec)	(m ³ /min)	(L/sec)	(USGPM)
		9-Aug-05	1:12	0.20	1.94	0.82	1.15	0.416	0.358	21.469	357.8	5,671.6249
		Temp.	Cond.	PH								
		n/a										
11	Intervals >>>	1	2	3	4	5	6	7	8	9	10	11
		Totals	0.90	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80
Width (m)	1.120	0.13	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.09
Depth (m)	Enter >>>>>	1.90	0.18	0.20	0.19	0.17	0.18	0.16	0.18	0.16	0.14	0.14
Area (m2)	0.416	0.247	0.018	0.020	0.019	0.017	0.018	0.016	0.018	0.016	0.014	0.013
Velocity (m/sec)	Enter >>>>>	0.91	1.00	0.95	0.97	0.70	0.82	0.77	0.72	0.83	0.76	0.14
Discharge (m3/sec)	0.358	0.225	0.018	0.019	0.018	0.012	0.015	0.012	0.013	0.013	0.011	0.002

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STATION ID:	BC-PH	Date	Time	Staff Gauge	Left Bank	Right Bank	Width	Area	Discharge				
				(m)	(m)	(m)	(m)	(m ²)	(m ³ /sec)	(m ³ /min)	(L/sec)	(USGPM)	
		10-Aug-05	2:04	0.20	1.94	0.82	1.12	0.190	0.138	8.278	138.0	2,186.8	
		Temp.	Cond.	PH									
		Intervals >>>											
		1	2	3	4	5	6	7	8	9	10	11	
		Totals	0.90	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90
	11	Width (m)	1.120	0.13	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.09
		Depth (m)	Enter >>>>>	0.18	0.18	0.20	0.15	0.18	0.19	0.16	0.17	0.16	0.15
		Area (m2)	0.190	0.023	0.018	0.020	0.015	0.018	0.019	0.016	0.017	0.016	0.015
		Velocity (m/sec)	Enter >>>>>	0.90	0.87	0.83	0.89	0.68	0.78	0.73	0.63	0.82	0.51
		Discharge (m3/sec)	0.138	0.021	0.016	0.017	0.013	0.012	0.015	0.012	0.011	0.013	0.008

STATION ID:	BC-PH	Date	Time	Staff Gauge	Left Bank	Right Bank	Width	Area	Discharge				
				(m)	(m)	(m)	(m)	(m ²)	(m ³ /sec)	(m ³ /min)	(L/sec)	(USGPM)	
		11-Aug-05	3:24	0.19	1.94	0.82	1.12	0.184	0.123	7.401	123.4	1,955.2	
		Temp.	Cond.	PH									
		Intervals >>>											
		1	2	3	4	5	6	7	8	9	10	11	
		Totals	0.90	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90
	11	Width (m)	1.120	0.13	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.09
		Depth (m)	Enter >>>>>	0.18	0.19	0.19	0.14	0.16	0.18	0.16	0.16	0.15	0.14
		Area (m2)	0.184	0.023	0.019	0.019	0.014	0.016	0.018	0.016	0.016	0.015	0.013
		Velocity (m/sec)	Enter >>>>>	0.84	0.80	0.86	0.87	0.68	0.78	0.66	0.63	0.7	0.24
		Discharge (m3/sec)	0.123	0.020	0.015	0.016	0.012	0.011	0.014	0.011	0.010	0.011	0.004

STATION ID:	BC-PH	Date	Time	Staff Gauge	Left Bank	Right Bank	Width	Area	Discharge				
				(m)	(m)	(m)	(m)	(m ²)	(m ³ /sec)	(m ³ /min)	(L/sec)	(USGPM)	
		12-Aug-05	1:36	0.19	1.94	0.82	1.15	0.186	0.125	7.525	125.4	1,987.9788	
		Temp.	Cond.	PH									
		Intervals >>>											
		1	2	3	4	5	6	7	8	9	10	11	
		Totals	0.90	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90
	11	Width (m)	1.120	0.13	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.09
		Depth (m)	Enter >>>>>	0.18	0.17	0.19	0.14	0.17	0.18	0.17	0.17	0.17	0.14
		Area (m2)	0.186	0.023	0.017	0.019	0.014	0.017	0.018	0.017	0.017	0.017	0.014
		Velocity (m/sec)	Enter >>>>>	0.90	0.68	0.87	0.82	0.70	0.79	0.64	0.59	0.68	0.38
		Discharge (m3/sec)	0.125	0.021	0.012	0.017	0.011	0.012	0.014	0.011	0.010	0.012	0.005

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STATION ID:	BC-PH	Date	Time	Staff Gauge	Left Bank	Right Bank	Width	Area	Discharge			
				(m)	(m)	(m)	(m)	(m ²)	(m ³ /sec)	(m ³ /min)	(L/sec)	(USGPM)
		15-Aug-05	1:12	0.18	1.94	0.82	1.12	0.165	0.111	6.640	110.7	1,754.1
		Temp.	Cond.	PH								
11		Intervals >>>										
		Totals	1	2	3	4	5	6	7	8	9	10
Width (m)	1.120	0.13	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.09
Depth (m)	Enter >>>>>	0.16	0.16	0.16	0.15	0.14	0.16	0.15	0.15	0.16	0.11	0.12
Area (m2)	0.165	0.021	0.016	0.016	0.015	0.014	0.016	0.015	0.015	0.016	0.011	0.011
Velocity (m/sec)	Enter >>>>>	0.83	0.71	0.82	0.82	0.80	0.79	0.72	0.52	0.61	0.4	0.04
Discharge (m3/sec)	0.111	0.017	0.011	0.013	0.012	0.011	0.013	0.011	0.008	0.010	0.004	0.000

STATION ID:	BC-PH	Date	Time	Staff Gauge	Left Bank	Right Bank	Width	Area	Discharge			
				(m)	(m)	(m)	(m)	(m ²)	(m ³ /sec)	(m ³ /min)	(L/sec)	(USGPM)
		16-Aug-05	3:12	0.18	1.94	0.82	1.12	0.174	0.107	6.427	107.1	1,697.9
		Temp.	Cond.	PH								
11		Intervals >>>										
		Totals	1	2	3	4	5	6	7	8	9	10
Width (m)	1.120	0.13	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.09
Depth (m)	Enter >>>>>	0.17	0.17	0.17	0.15	0.16	0.16	0.16	0.16	0.15	0.13	0.13
Area (m2)	0.174	0.022	0.017	0.017	0.015	0.016	0.016	0.016	0.016	0.015	0.013	0.012
Velocity (m/sec)	Enter >>>>>	0.71	0.69	0.71	0.81	0.73	0.75	0.64	0.55	0.62	0.31	0.01
Discharge (m3/sec)	0.107	0.016	0.012	0.012	0.012	0.011	0.012	0.010	0.009	0.009	0.004	0.000

STATION ID:	BC-PH	Date	Time	Staff Gauge	Left Bank	Right Bank	Width	Area	Discharge			
				(m)	(m)	(m)	(m)	(m ²)	(m ³ /sec)	(m ³ /min)	(L/sec)	(USGPM)
		18-Aug-05	1:11	0.18	1.94	0.82	1.12	0.170	0.108	6.509	108.5	1,719.6
		Temp.	Cond.	PH								
11		Intervals >>>										
		Totals	1	2	3	4	5	6	7	8	9	10
Width (m)	1.120	0.13	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.09
Depth (m)	Enter >>>>>	0.17	0.17	0.15	0.15	0.16	0.16	0.15	0.16	0.14	0.13	0.13
Area (m2)	0.170	0.022	0.017	0.015	0.015	0.016	0.016	0.015	0.016	0.014	0.013	0.012
Velocity (m/sec)	Enter >>>>>	0.75	0.67	0.84	0.87	0.73	0.79	0.68	0.52	0.6	0.32	0.02
Discharge (m3/sec)	0.108	0.017	0.011	0.013	0.013	0.011	0.012	0.010	0.008	0.008	0.004	0.000

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Brewery Creek Mine

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STATION ID:	BC-PH	Date	Time	Staff Gauge (m)	Left Bank (m)	Right Bank (m)	Width (m)	Area (m ²)	Discharge			
									(m ³ /sec)	(m ³ /min)	(L/sec)	(USGPM)
		22-Aug-05	1:19	0.17	1.94	0.82	1.12	0.163	0.092	5.490	91.5	1,450.4
		Temp.	Cond.	PH								
11		Intervals >>>										
		Totals	1	2	3	4	5	6	7	8	9	10
Width (m)	1.120	0.13	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.09
Depth (m)	Enter >>>>>	0.17	0.17	0.15	0.14	0.15	0.15	0.12	0.16	0.14	0.13	0.12
Area (m ²)	0.163	0.021	0.017	0.015	0.014	0.015	0.015	0.012	0.016	0.014	0.013	0.011
Velocity (m/sec)	Enter >>>>>	0.58	0.66	0.84	0.82	0.76	0.68	0.62	0.46	0.49	0.04	0.02
Discharge (m ³ /sec)	0.092	0.012	0.011	0.013	0.011	0.011	0.010	0.007	0.007	0.007	0.001	0.000

STATION ID:	BC-PH	Date	Time	Staff Gauge (m)	Left Bank (m)	Right Bank (m)	Width (m)	Area (m ²)	Discharge			
									(m ³ /sec)	(m ³ /min)	(L/sec)	(USGPM)
		23-Aug-05	12:09	0.17	1.94	0.82	1.12	0.164	0.091	5.444	90.7	1,438.1
		Temp.	Cond.	PH								
11		Intervals >>>										
		Totals	1	2	3	4	5	6	7	8	9	10
Width (m)	1.120	0.13	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.09
Depth (m)	Enter >>>>>	0.17	0.17	0.13	0.13	0.15	0.15	0.15	0.16	0.15	0.12	0.12
Area (m ²)	0.164	0.022	0.017	0.013	0.013	0.015	0.015	0.015	0.016	0.015	0.012	0.011
Velocity (m/sec)	Enter >>>>>	0.53	0.70	0.88	0.88	0.78	0.73	0.53	0.47	0.37	0.02	0.03
Discharge (m ³ /sec)	0.091	0.012	0.012	0.011	0.011	0.012	0.011	0.008	0.008	0.006	0.000	0.000

STATION ID:	BC-PH	Date	Time	Staff Gauge (m)	Left Bank (m)	Right Bank (m)	Width (m)	Area (m ²)	Discharge			
									(m ³ /sec)	(m ³ /min)	(L/sec)	(USGPM)
		24-Aug-05	1:29	0.19	1.94	0.82	1.12	0.178	0.115	6.927	115.5	1,829.9
		Temp.	Cond.	PH								
11		Intervals >>>										
		Totals	1	2	3	4	5	6	7	8	9	10
Width (m)	1.120	0.13	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.09
Depth (m)	Enter >>>>>	0.17	0.17	0.19	0.13	0.17	0.17	0.15	0.16	0.17	0.13	0.14
Area (m ²)	0.178	0.022	0.017	0.019	0.013	0.017	0.017	0.015	0.016	0.017	0.013	0.012
Velocity (m/sec)	Enter >>>>>	0.80	0.75	0.76	0.90	0.72	0.74	0.59	0.63	0.62	0.34	0.04
Discharge (m ³ /sec)	0.115	0.018	0.013	0.014	0.012	0.012	0.013	0.009	0.010	0.011	0.004	0.000

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STATION ID:	BC-31	Date	Time	Staff Gauge	Left Bank	Right Bank	Width	Area	Discharge			
				(m)	(m)	(m)	(m)	(m ²)	(m ³ /sec)	(m ³ /min)	(L/sec)	(USGPM)
		24-Aug-05	10:30	0.00	5.60	1.90	3.70	0.000	0.000	0.000	0.0	0.0
		Temp.	Cond.	PH								
		<i>Intervals >>></i>										
		<i>Totals</i>										
11		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Width (m)	3.700	-1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.60
Depth (m)	Enter >>>>>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Area (m2)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Velocity (m/sec)	Enter >>>>>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
Discharge (m3/sec)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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STATION ID:	BC-PH	Date	Time	Staff Gauge	Left Bank	Right Bank	Width	Area	Discharge			
				(m)	(m)	(m)	(m)	(m ²)	(m ³ /sec)	(m ³ /min)	(L/sec)	(USGPM)
		26-Aug-05	2:26	0.22	1.94	0.82	1.12	0.239	0.205	12.295	204.9	3,247.9
		Temp.	Cond.	PH								
11	Intervals >>>	1	2	3	4	5	6	7	8	9	10	11
		Totals	0.90	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80
Width (m)	1.120	0.13	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.09
Depth (m)	Enter >>>>>	0.25	0.25	0.24	0.20	0.21	0.21	0.19	0.21	0.20	0.19	0.19
Area (m2)	0.239	0.033	0.025	0.024	0.020	0.021	0.021	0.019	0.021	0.020	0.019	0.017
Velocity (m/sec)	Enter >>>>>	0.85	0.98	0.93	0.98	0.96	0.91	0.85	0.76	0.80	0.83	0.48
Discharge (m3/sec)	0.205	0.028	0.024	0.022	0.020	0.020	0.019	0.016	0.016	0.016	0.016	0.008

STATION ID:	BC-4			(m)	(m)	(m)	(m)	(m ²)	(m ³ /sec)	(m ³ /min)	(L/sec)	(USGPM)
		29-Aug-05	0:00	1.30	2.80	0.82	1.98	0.339	0.096	5.785	96.4	1,528.3
		Temp.	Cond.	PH								
9	Intervals >>>	1	2	3	4	5	6	7	8	9	10	11
		Totals	1.50	1.70	1.90	2.10	2.30	2.20	2.40	2.60	2.00	
Width (m)	1.980	0.78	0.20	0.20	0.20	0.05	0.05	0.20	-0.20	0.50		
Depth (m)	Enter >>>>>	0.10	0.13	0.15	0.16	0.13	0.13	0.10	0.80	0.60		
Area (m2)	0.339	0.078	0.026	0.030	0.032	0.007	0.007	0.020	-0.160	0.300	0.000	0.000
Velocity (m/sec)	Enter >>>>>	0.31	0.40	0.44	0.53	0.25	0.47	0.26	0.22	0.19		
Discharge (m3/sec)	0.096	0.024	0.010	0.013	0.017	0.002	0.003	0.005	-0.035	0.057	0.000	0.000

STATION ID:	BC-33			(m)	(m)	(m)	(m)	(m ²)	(m ³ /sec)	(m ³ /min)	(L/sec)	(USGPM)
		29-Aug-05	12:52	3.90	3.90	9.60	-5.70	0.000	0.000	0.000	0.0	0.0
		Temp.	Cond.	PH								
11	Intervals >>>	1	2	3	4	5	6	7	8	9	10	11
		Totals	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Width (m)	-5.700	-9.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.90
Depth (m)	Enter >>>>>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Area (m2)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Velocity (m/sec)	Enter >>>>>	0.00	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00	0.00	0
Discharge (m3/sec)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

STATION ID:	BC-5			(m)	(m)	(m)	(m)	(m ²)	(m ³ /sec)	(m ³ /min)	(L/sec)	(USGPM)
		29-Aug-05	1:42	1.00	1.70	3.10	-1.40	-0.201	-0.089	-5.369	-89.5	-1,418.4
		Temp.	Cond.	PH								
	Intervals >>>	1	2	3	4	5	6	7	8	9	10	11

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7	Totals	1.80	3.00	2.20	2.40	2.60	2.80	3.00				
Width (m)	-1.400	-0.70	0.20	-0.30	0.20	0.20	0.20	-1.20				
Depth (m)	Enter >>>>>	0.16	0.22	0.21	0.20	0.13	0.10	0.13				
Area (m2)	-0.201	-0.112	0.044	-0.063	0.040	0.026	0.020	-0.156	0.000	0.000	0.000	0.000
Velocity (m/sec)	Enter >>>>>	1.02	1.05	1.07	0.98	0.86	0.78	0.20				
Discharge (m3/sec)	-0.089	-0.114	0.046	-0.067	0.039	0.022	0.016	-0.031	0.000	0.000	0.000	0.000

STATION ID:	BC-3			(m)	(m)	(m)	(m)	(m ²)	(m ³ /sec)	(m ³ /min)	(L/sec)	(USGPM)
		29-Aug-05	11:21		1.30	4.10	-2.80	-0.986	-0.070	-4.199	-70.0	-1,109.2
		Temp.	Cond.	PH								

11	Intervals >>>	1	2	3	4	5	6	7	8	9	10	11
	Totals	1.40	1.70	2.00	2.40	2.70	3.00	3.20	3.40	3.50	3.70	3.80
Width (m)	-2.800	-2.55	0.30	0.35	0.35	0.30	0.25	0.20	0.15	0.15	0.15	-2.45
Depth (m)	Enter >>>>>	0.26	0.30	0.33	0.35	0.11	0.40	0.36	0.37	0.22	0.24	0.40
Area (m2)	-0.986	-0.663	0.090	0.116	0.123	0.033	0.100	0.072	0.056	0.033	0.036	-0.980
Velocity (m/sec)	Enter >>>>>	0.50	0.58	0.73	0.81	1.00	0.89	0.85	0.64	0.58	0.37	0.23
Discharge (m3/sec)	-0.070	-0.332	0.052	0.084	0.099	0.033	0.089	0.061	0.036	0.019	0.013	-0.225

STATION ID:	BC-35			(m)	(m)	(m)	(m)	(m ²)	(m ³ /sec)	(m ³ /min)	(L/sec)	(USGPM)
		29-Aug-05	12:02	2.30	2.80	1.80	1.00	0.111	0.051	3.072	51.2	811.5
		Temp.	Cond.	PH								

8	Intervals >>>	1	2	3	4	5	6	7	8	9	10	11
	Totals	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60			
Width (m)	1.000	0.15	0.10	0.10	0.10	0.10	0.10	0.10	0.25			
Depth (m)	Enter >>>>>	0.07	0.11	0.15	0.16	0.16	0.17	0.13	0.05			
Area (m2)	0.111	0.011	0.011	0.015	0.016	0.016	0.017	0.013	0.013	0.000	0.000	0.000
Velocity (m/sec)	Enter >>>>>	0.74	0.47	0.30	0.37	0.46	0.50	0.45	0.49			
Discharge (m3/sec)	0.051	0.008	0.005	0.005	0.006	0.007	0.009	0.006	0.006	0.000	0.000	0.000

Alexco Resource Corp.
Brewery Creek Mine
Water Flows

STATION ID:	BC-1	Date	Time	Staff Gauge	Left Bank	Right Bank	Width	Area	Discharge			
		29-Aug-05		(m)	(m)	(m)	(m)	(m ²)	(m ³ /sec)	(m ³ /min)	(L/sec)	(USGPM)
		Temp.	Cond.	PH								
				0.32	2.20	0.70	1.50	0.937	0.205	12.277	204.6	3,243.2
11	Intervals >>>>	1	2	3	4	5	6	7	8	9	10	11
	Totals	0.90	1.00	1.10	1.20	1.30	1.40	1.60	1.70	1.80	1.90	2.10
Width (m)	1.500	0.25	0.10	0.10	0.10	0.10	0.15	0.15	0.10	0.10	0.15	0.20
Depth (m)	Enter >>>>>	0.55	0.59	0.59	0.61	0.62	0.63	0.69	0.66	0.67	0.65	0.65
Area (m2)	0.937	0.138	0.059	0.059	0.061	0.062	0.095	0.104	0.066	0.067	0.098	0.130
Velocity (m/sec)	Enter >>>>>	0.03	0.05	0.09	0.10	0.09	0.24	0.34	0.43	0.35	0.38	0.26
Discharge (m3/sec)	0.205	0.004	0.003	0.005	0.006	0.006	0.023	0.035	0.028	0.023	0.037	0.034

STATION ID:	BC-53	Date	Time	Staff Gauge	Left Bank	Right Bank	Width	Area	Discharge			
		29-Aug-05		(m)	(m)	(m)	(m)	(m ²)	(m ³ /sec)	(m ³ /min)	(L/sec)	(USGPM)
		Temp.	Cond.	PH								
		5.3		7.93	3.50	1.50	2.00	-0.026	-0.116	-6.945	-115.8	-1,834.8
13	Intervals >>>>	1	2	3	4	5	6	7	8	9	10	11
	Totals	1.70	1.90	2.10	2.30	2.50	2.70	2.90	3.10	3.20	3.30	
Width (m)	-1.600	0.30	0.20	0.20	0.20	0.20	0.20	0.20	0.15		-1.60	-1.65
Depth (m)	Enter >>>>>	0.25	0.29	0.26	0.32	0.03	0.35	0.37	0.37	0.37	0.30	
Area (m2)	-0.026	0.075	0.058	0.052	0.064	0.006	0.070	0.074	0.056	0.000	-0.480	0.000
Velocity (m/sec)	Enter >>>>>	0.02	0.22	0.31	0.21	0.19	0.30	0.38	0.63	0.44	0.51	
Discharge (m3/sec)	-0.116	0.002	0.013	0.016	0.013	0.001	0.021	0.028	0.035	0.000	-0.245	0.000

Alexco Resource Corp.
Brewery Creek Mine
Water Flows

STATION ID:		Date	Time	Staff Gauge	Left Bank	Right Bank	Width	Area	Discharge			
STATION ID:		BC-PH		(m)	(m)	(m)	(m)	(m ²)	(m ³ /sec)	(m ³ /min)	(L/sec)	
		2-Sep-05	9:10	0.25	1.94	1.05	0.89	0.206	0.195	11.710	195.2	
		Temp.	Cond.	PH								
		6.6	7.84									
0	Intervals >>>		1	2	3	4	5	6	7	8	9	10
Width (m)	11	Totals	0.90	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80
Depth (m)	Width (m)	0.890	-0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Area (m2)	Depth (m)	Enter >>>>>	0.22	0.26	0.26	0.23	0.22	0.24	0.21	0.24	0.23	0.21
	Area (m2)	0.206	-0.022	0.026	0.026	0.023	0.022	0.024	0.021	0.024	0.023	0.021
Velocity (m/sec)	Enter >>>>>		1.06	0.84	0.91	1.20	1.27	1.16	0.99	0.89	0.78	0.93
Discharge (m3/sec)	Velocity (m/sec)	0.195	-0.023	0.022	0.024	0.028	0.028	0.028	0.020	0.021	0.018	0.020
	Discharge (m3/sec)											

STATION ID:		Date	Time	Staff Gauge	Left Bank	Right Bank	Width	Area	Discharge			
STATION ID:		BC-PH		(m)	(m)	(m)	(m)	(m ²)	(m ³ /sec)	(m ³ /min)	(L/sec)	
		8-Sep-05	2:00	0.18	1.94	0.82	1.12	0.181	0.128	7.689	128.1	
		Temp.	Cond.	PH								
		3.8	7.55									
0	Intervals >>>		1	2	3	4	5	6	7	8	9	10
Width (m)	11	Totals	0.90	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80
Depth (m)	Width (m)	1.120	0.13	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Area (m2)	Depth (m)	Enter >>>>>	0.16	0.19	0.19	0.18	0.19	0.18	0.10	0.15	0.16	0.13
	Area (m2)	0.181	0.021	0.019	0.019	0.018	0.019	0.018	0.010	0.015	0.016	0.013
Velocity (m/sec)	Enter >>>>>		0.75	0.73	0.92	0.94	0.78	0.78	0.74	0.66	0.64	0.45
Discharge (m3/sec)	Velocity (m/sec)	0.128	0.016	0.014	0.017	0.017	0.015	0.014	0.007	0.010	0.010	0.006
	Discharge (m3/sec)											

STATION ID:		Date	Time	Staff Gauge	Left Bank	Right Bank	Width	Area	Discharge			
STATION ID:		BC-PH		(m)	(m)	(m)	(m)	(m ²)	(m ³ /sec)	(m ³ /min)	(L/sec)	
		5-Sep-05	11:00	0.18	1.94	0.82	1.12	0.171	0.112	6.692	111.5	
		Temp.	Cond.	PH								
0	Intervals >>>		1	2	3	4	5	6	7	8	9	10
Width (m)	11	Totals	0.90	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80
Depth (m)	Width (m)	1.120	0.13	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Area (m2)	Depth (m)	Enter >>>>>	0.18	0.18	0.17	0.14	0.16	0.14	0.14	0.15	0.14	0.14
	Area (m2)	0.171	0.023	0.018	0.017	0.014	0.016	0.014	0.014	0.015	0.014	0.014
Velocity (m/sec)	Enter >>>>>		0.70	0.68	0.95	0.98	0.85	0.68	0.64	0.60	0.64	0.22
Discharge (m3/sec)	Velocity (m/sec)	0.112	0.016	0.012	0.016	0.014	0.013	0.010	0.009	0.009	0.009	0.003
	Discharge (m3/sec)											

Alexco Resource Corp.
Brewery Creek Mine
Water Flows

STATION ID:		Date	Time	Staff Gauge	Left Bank	Right Bank	Width	Area	Discharge		
STATION ID:	BC PH			(m)			(m)	(m²)	(m³/sec)	(m³/min)	(L/sec)
		13-Sep-05	12:15	0.20	1.94	0.82	1.12	0.167	0.112	6.692	111.5
		Temp.	Cond.	PH							
		6.7		8.20							
0	Intervals >>>	1	2	3	4	5	6	7	8	9	10
Width (m)	Totals	0.90	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80
Depth (m)	Width (m)	1.020	0.13	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Area (m2)	Depth (m)	Enter >>>>>	0.19	0.19	0.17	0.17	0.16	0.15	0.16	0.16	0.16
	Area (m2)	0.167	0.025	0.019	0.017	0.000	0.017	0.016	0.015	0.016	0.016
Velocity (m/sec)	Enter >>>>>	0.73	0.90	1.05	0.94	0.90	0.56	0.62	0.67	0.74	0.16
Discharge (m3/sec)	Discharge (m3/sec)	0.112	0.018	0.017	0.018	0.000	0.015	0.009	0.009	0.011	0.012

STATION ID:		Date	Time	Staff Gauge	Left Bank	Right Bank	Width	Area	Discharge			
STATION ID:	0.00			(m)	(m)	(m)	(m)	(m²)	(m³/sec)	(m³/min)	(L/sec)	(USGPM)
		0-Jan-00	0:00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.0	0.0
		Temp.	Cond.	PH								
7	Intervals >>>	1	2	3	4	5	6	7	8	9	10	11
Width (m)	Totals	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
Depth (m)	Enter >>>>>	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
Area (m2)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Velocity (m/sec)	Enter >>>>>	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
Discharge (m3/sec)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Brewery Creek Mine
Monitoring Pursuant to Water License QZ96-007
Site Flows

HYDROLOGY DATA: Flow Rates 2004

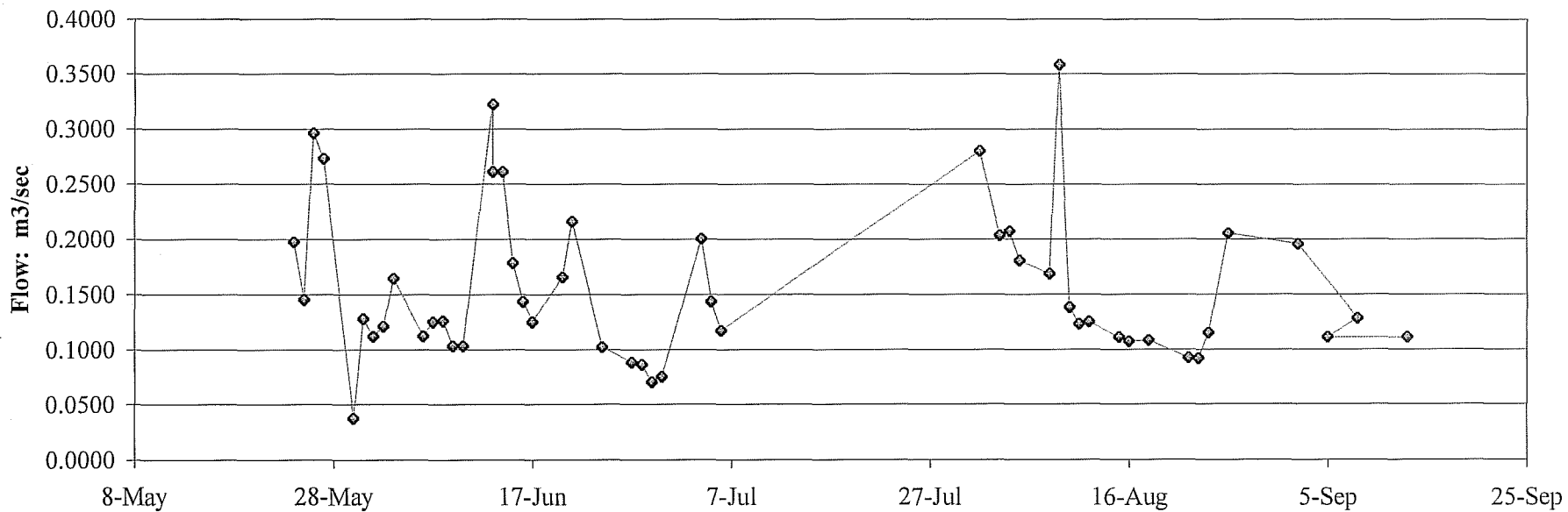
Station ID: Pump House
Description: Laura Creek 200M upstream of BC-3

Date (m/d/y)	Time	Staff Gauge (m)	Width (m)	Area (m ²)	Discharge			
					(m ³ /sec)	(m ³ /min)	(L/sec)	(US gal/min)
24-May	01:20	0.270	0.96	0.221	0.197	0.0	0.0	3,115.1
25-May	01:10	0.260	0.96	0.209	0.145	0.0	0.0	2,292.9
26-May	01:10	0.250	0.96	0.380	0.296	0.0	0.0	4,690.8
27-May	01:10	0.250	0.96	0.351	0.273	0.0	0.0	4,323.3
30-May	01:06	0.230	0.98	0.153	0.037	0.0	0.0	587.6
31-May	11:30	0.240	1.05	0.186	0.128	0.0	0.0	2,030.5
1-Jun	01:09	0.230	0.96	0.181	0.112	0.0	0.0	1,776.9
2-Jun	01:10	0.240	0.96	0.195	0.121	0.0	0.0	1,920.0
3-Jun	01:19	0.250	0.96	0.216	0.164	0.0	0.0	2,601.5
6-Jun	01:07	0.230	0.96	0.189	0.112	0.0	0.0	1,779.7
7-Jun	01:00	0.240	0.96	0.189	0.125	0.0	0.0	1,981.2
8-Jun	01:17	0.240	0.96	0.201	0.126	0.0	0.0	2,002.8
9-Jun	04:18	0.230	0.96	0.171	0.103	0.0	0.0	1,640.2
10-Jun	04:15	0.210	0.96	0.177	0.103	0.0	0.0	1,625.6
13-Jun	01:09	0.300	1.15	0.274	0.322	0.0	0.0	5,102.4
13-Jun	01:16	0.290	0.96	0.245	0.261	0.0	0.0	4,136.9
14-Jun	01:16	0.290	0.96	0.245	0.261	0.0	0.0	4,136.9
15-Jun	01:10	0.250	0.96	0.192	0.178	0.0	0.0	2,817.5
16-Jun	01:04	0.230	0.96	0.166	0.143	0.0	0.0	2,270.4
17-Jun	01:02	0.210	0.96	0.157	0.125	0.0	0.0	1,983.6
20-Jun	03:35	0.230	0.96	0.173	0.165	0.0	0.0	2,617.6
21-Jun	01:08	0.220	0.96	0.306	0.216	0.0	0.0	3,418.8
24-Jun	01:38	0.200	0.96	0.147	0.102	0.0	0.0	1,618.0
27-Jun	01:52	0.190	0.96	0.136	0.088	0.0	0.0	1,400.2
28-Jun	01:06	0.180	0.96	0.140	0.086	0.0	0.0	1,364.1
29-Jun	01:14	0.180	0.96	0.119	0.070	0.0	0.0	1,114.3
30-Jun	01:30	0.190	0.96	0.131	0.075	0.0	0.0	1,189.4
4-Jul	01:24	0.260	0.96	0.204	0.200	0.0	0.0	3,171.1
5-Jul	01:16	0.220	0.96	0.161	0.143	0.0	0.0	2,265.1
6-Jul	01:17	0.210	0.96	0.143	0.117	0.0	0.0	1,857.2
1-Aug	12:25	0.550	1.15	0.585	0.280	0.0	0.0	13,934.5
3-Aug	02:00	0.240	1.25	0.229	0.203	0.0	0.0	3,220.8
4-Aug	01:09	0.230	1.12	0.236	0.207	0.0	0.0	3,278.9

**Brewery Creek Mine
Monitoring Pursuant to Water License QZ96-007
Site Flows**

5-Aug	03:09	0.210	1.12	0.221	0.180	0.0	0.0	2,846.1
8-Aug	01:25	0.210	1.12	0.223	0.168	0.0	0.0	2,664.9
9-Aug	01:12	0.200	1.15	0.416	0.358	0.0	0.0	5,671.6
10-Aug	02:04	0.200	1.12	0.190	0.138	0.0	0.0	2,186.8
11-Aug	03:24	0.190	1.12	0.184	0.123	0.0	0.0	1,955.2
12-Aug	01:36	0.190	1.15	0.186	0.125	0.0	0.0	1,988.0
15-Aug	01:12	0.180	1.12	0.165	0.111	0.0	0.0	1,754.1
16-Aug	03:12	0.180	1.12	0.174	0.107	0.0	0.0	1,697.9
18-Aug	01:11	0.180	1.12	0.170	0.108	0.0	0.0	1,719.6
22-Aug	01:19	0.170	1.12	0.163	0.092	0.0	0.0	1,450.4
23-Aug	12:09	0.170	1.12	0.164	0.091	0.0	0.0	1,438.1
24-Aug	01:29	0.190	1.12	0.178	0.115	0.0	0.0	1,829.9
26-Aug	02:26	0.220	1.12	0.239	0.205	0.0	0.0	3,247.9
2-Sep	09:10	0.250	0.89	0.206	0.195	0.0	0.0	0.0
8-Sep	02:00	0.180	1.12	0.181	0.128	0.0	0.0	0.0
5-Sep	11:00	0.180	1.12	0.171	0.111	0.0	0.0	0.0
13-Sep	12:15	0.200	1.12	0.167	0.111	0.0	0.0	0.0

Pump House: Discharge (m3/sec)



Appendix B

WATER QUALITY

Brewery Creek Mine

WATER QUALITY MONITORING STATIONS: Station Descriptions & Coordinates

SITE	DESCRIPTION	TYPE	FREQ.	Stations		Geographic Location		Mine Grid (metres)		Elevation (metres)		Established	Analysis (ASL suite)
				Sediment	Benthos	Latitude	Longitude	Northing	Easting	Ground	Meas. Pl.		
BC-01	Laura Ck. 50 m u/s from Ditch Road	receiving	MWF	W5	B3	63° 59.892' N	138° 14.823' W	15,037.7	16,061.7			17-Aug-95	SA(1),TM(7),CN(5)
BC-02	Carolyn Ck. u/s from Laura Ck.	receiving	MWF	W15				18,506.4	15,430.9			14-Aug-94	SA(1),TM(7),CN(5)
BC-03	Laura Ck. above Carolyn Ck.	receiving	MWF	W4B				18,361.2	15,681.4			26-Aug-94	SA(1),TM(7),CN(5)*
BC-04	Lucky Ck. d/s from Lucky Pit	receiving	Q	W13	B7	64° 04.027' N	138° 09.106' W	19,517.5	23,865.1			22-Aug-94	SA(1),TM(7)
BC-05	Pacific Ck. u/s from confl. with Lee Ck.	receiving	Q	W11		64° 03.212' N	138° 20.139' W	21,260.2	12,014.6			22-Aug-95	SA(1),TM(7)
BC-06	South Klondike d/s from confl. with Lee Ck.	receiving	Q	W9	B5	63° 58.665' N	138° 23.447' W	16,175.2	8,606.0			1-Jun-90	SA(1),TM(7),CN(5)
BC-09	Fosters Pit and Dump (Upper)	effluent	Q									No Discharge	SA(1),TM(7)
BC-10	Kokanee Pit and Dump	effluent	Q					19,731.2	21,017.5	948.0		1-Jul-97	SA(1),TM(7)
BC-11	Blue Waste Dump	effluent	Q					19,939.1	18,096.1	760.0			SA(1),TM(7), DM(8)
BC-12	Blue Pit	effluent	Q					20,178.8	18,540.5	756.0			SA(1),TM(7), DM(8)
BC-13	Moosehead West Waste Dump	effluent	Q					20,858.2	18,748.3				SA(1),TM(7), DM(8)*
BC-14	Moosehead East Waste Dump	effluent	Q										SA(1),TM(7), DM(8)*
BC-15	Moosehead Pit discharge	effluent	Q					20,962.1	19,133.7	934.0			SA(1),TM(7), DM(8)*
BC-16	Pacific Gulch - 300m above Laura	receiving	Q					20,078.8	17,655.6	740.0		17-Jul-96	SA(1),TM(7)
BC-17	Golden Pit and Dump	effluent	Q					19,494.6	21,938.3	882.0		11-Aug-98	SA(1),TM(7), DM(8)*
BC-18	Lucky Pit and Dump - south end	effluent	Q					19,654.5	22,931.3				SA(1),TM(7), DM(8)*
BC-19	Piezometer RC94-843	ground H2O	Q					19,466.4	16,087.7	725.3	725.9	27-Aug-94	SA(2), DM(8), CN(5)
BC-20	Piezometer RC94-844	ground H2O	Q					20,283.2	16,474.4	769.0	769.7	27-Aug-94	SA(2), DM(8), CN(5)
BC-21	Piezometer RC95-1354	ground H2O	Q					20,400.4	17,151.7	839.5	840.1	19-Oct-95	SA(2), DM(8), CN(5)
BC-22	Piezometer RC95-1357	ground H2O	Q					19,709.5	16,105.0	691.1	692.1	23-Oct-95	SA(2), DM(8), CN(5)
BC-23	Piezometer RC95-1370	ground H2O	Q					19,301.3	16,332.5	738.5	738.9	23-Oct-95	SA(2), DM(8), CN(5)
BC-24	Piezometer RC95-1400	ground H2O	Q					20,218.5	16,239.6	763.0	772.4	21-Oct-95	SA(2), DM(8), CN(5)
BC-25	Piezometer RC96-1608	ground H2O	Q					19,713.8	16,185.7	738.1	738.9	23-Aug-96	SA(2), DM(8), CN(5)
BC-26	Piezometer RC97-2024	ground H2O	Q					19,552.6	23,052.3	765.4	766.0	24-Oct-97	SA(2), DM(8), CN(5)
BC-27	Piezometer RC97-2026	ground H2O	Q					19,580.8	21,889.5	898.2	898.7	26-Oct-97	SA(2), DM(8), CN(5)
BC-28	Overflow pond decant	effluent	MWA										SA(3),TM(9),DM(10)*,CN(6)
BC-28A	Heap Effluent	effluent	MWA										

* Site Designators Assigned by Viceroy
 BC-7 through BC-18. Weekly if licence limits exceeded.

Frequency	Description
MWF	Monthly When Flowing
Q/MWM	Quarterly When Not Active / Monthly During Active Mining
Q	Quarterly
DWD	Daily While Discharging
M - CN	Monthly - Cyanide Only
VOL	Voluntary Site

Analysis	
SA	Standard Analysis
TM	Total Metals
DM	Dissolved Metals
CN	Cyanide
*	When justified: Discharge, sediment contamination, study, etc.

Brewery Creek Mine

WATER QUALITY MONITORING STATIONS: Station Descriptions & Coordinates

SITE	DESCRIPTION	TYPE	FREQ.	Stations		Geographic Location		Mine Grid (metres)		Elevation (metres)		Established	Analysis (ASL suite)	
				Sediment	Benthos	Latitude	Longitude	Northing	Eastng	Ground	Meas. Pt.			
* BC-31	Golden Ck. above confl. with South Klondike	LUC	receiving	VOL	W2	B2	64° 01.856' N	138° 04.957' W	14,677.0	24,903.2			1-Jun-90	SA(1),TM(7)
* BC-32	Laura Ck. below exploration camp	LAU	receiving	VOL	W3				19,730.5	18,378.6			17-Aug-94	SA(1),TM(7)
* BC-33	Lee Ck. above Pacific Ck.	LEE	receiving	VOL	W6A	B6	64° 01.905' N	138° 23.306' W	21,505.5	11,689.3			1-Jul-91	SA(1),TM(7)
* BC-34	Lee Ck. at Ditch Road	LEE	receiving	VOL	W7	B1	64°00.500' N	138°23.000' W	18,847.0	10,683.0	520.4		1-Jun-90	SA(1),TM(7)
* BC-35	Pacific Ck. NW of W. Big Rock	PAC	receiving	VOL	W14		64° 03.212' N	138° 20.139' W	22,351.3	15,693.5			22-Aug-95	SA(1),TM(7)
* BC-36	Golden Ck. above confl. with Lucky Ck.	LUC	receiving	VOL	W16		64° 05.222' N	138° 06.896' W	20,714.8	26,319.6			18-Aug-95	SA(1),TM(7)
* BC-37	Laura Ck. at Ditch Road	LAU	receiving	VOL	W5A		63° 59.892' N	138° 14.823' W	15,165.1	15,586.7			17-Aug-95	SA(1),TM(7)
* BC-38	South Klondike u/s from confl. with Golden Ck.	KLO	receiving	VOL	W8	B4	64° 01.240' N	138° 05.481' W	13,564.4	24,172.3			1-Jun-90	SA(1),TM(7),CN(5)*
* BC-39	Laura Ck. at confl. with South Klondike		receiving	VOL			63° 59.267' N	138° 18.733' W	15,115.8	12,687.9			8-May-95	SA(1),TM(7),CN(5)
* BC-51	Pacific Pit		effluent	Q					20,410.6	17,683.5	797.0		25-Jul-00	SA(1),TM(7)
BC-60	Land Application Soil Sample Sites													SA(1),TM(7),CN(5)
BC-65	Land Application Piezometer			Q/MWA										SA(1),TM(7),CN(5)
BC-66	Land Application Piezometer			Q/MWA										SA(1),TM(7),CN(5)
BC-67	Blue WRSA Piezometer			Q										SA(1), DM(8)
BC-68	Blue WRSA Piezometer			Q										SA(1), DM(8)
BC-69	Blue WRSA Piezometer			Q										SA(1), DM(8)
Blue Lys	Lysimeter - Blue waste rock cover		effluent	VOL										SA(1), DM(8)

* Site Designators Assigned by Viceroy
 BC-7 through BC-18. Weekly if licence limits exceeded.

Frequency Description
 MWF Monthly When Flowing
 Q/MWA Quarterly When Not Active / Monthly During Active Season
 Q Quarterly
 DWD Daily While Discharging
 M - CN Monthly - Cyanide Only
 VOL Voluntary Site

Analysis
 SA Standard Analysis
 TM Total Metals
 DM Dissolved Metals
 CN Cyanide
 * When justified: Discharge, sediment contamination, study, etc.

Alexco Resource Corp.

Brewery Creek Mine

Monitoring Pursuant to Water License QZ96-007

Surface Stations

	Station	BC-1	BC-1	BC-1	BC-1	BC-1	BC-1
Units	Date	23-Jan-05	7-Feb-05	14-Mar-05	30-Apr-05	31-May-05	23-Jun-05
m/sec	Water Level or Flow		na	na			
pH units	pH (field)						
pH units	pH (lab)	8.13	7.99	6.78	7.60	8.18	7.99
uS/cm	Conductivity (field)						
uS/cm	Conductivity (lab)	630	722	598	125	443	383
°C	Temperature (field)						
mg CaCO ₃ /L	Hardness	332	388	290	54.5	200	178
mg CaCO ₃ /L	Alkalinity	188	172	94.5		118	111
mg/L	Total Dissolved Solids	432	487	653	130	281	261
mg/L	Total Suspended Solids	<3.0	< 3.0	8	19.7	66.7	162
mg/L	Chloride	0.54	1.41	0.93	0.9	1.68	1.25
mg/L	Sulfate	167	191	232	25	85.3	84.1
mg /L	Ammonia	<0.02	0.0167	0.03	0.075	0.035	0.089
mg /L	Nitrate	0.256	0.271	<0.005	0.467	6.87	4.3
mg/L	Total Cyanide	<0.005	<0.005	<0.002	<0.010	0.01	0.0069
mg/L	WAD Cyanide	<0.005	<0.005	<0.002	<0.010	<0.010	0.0059
	Total Metals	TM	TM	TM	TM	TM	TM
mg/L	Aluminum	0.12	0.029	0.34	0.6	0.58	2.03
mg/L	Antimony	0.002	0.004	0.006	0.005	< 0.05	0.005
mg/L	Arsenic	0.01	0.013	0.005	0.01	< 0.03	0.007
mg/L	Barium	0.079	0.11	0.17	0.062	0.063	0.19
mg/L	Beryllium	<0.001	<0.001	<0.001	< 0.001	< 0.003	< 0.001
mg/L	Bismuth	<0.001	<0.001	<0.001	< 0.001		< 0.001
mg/L	Boron	<0.001	<0.05	<0.05	< 0.05	< 0.01	< 0.05
mg/L	Cadmium	<0.001	<0.0002	0.0022	< 0.0002	< 0.01	< 0.0002
mg/L	Calcium	89	93.9	107	12.7	41.4	49.4
mg/L	Chromium	<0.001	<0.001	0.01	< 0.001	< 0.01	0.004
mg/L	Cobalt	<0.001	<0.001	0.002	0.002	< 0.02	0.013
mg/L	Copper	0.001	0.003	0.017	0.003	< 0.02	0.008
mg/L	Iron	0.32	0.09	0.62	0.71	1.07	3.57
mg/L	Lead	<0.001	<0.001	0.001	< 0.001	< 0.03	0.003
mg/L	Lithium	0.015	0.024	0.011	0.003		0.01
mg/L	Magnesium	34.3	37.1	41.8	4.86	15.3	18.5
mg/L	Manganese	0.029	0.035	0.32	0.065	0.045	0.12
mg/L	Mercury	<0.00002	<0.0002	0.00005	0.06	< 0.02	< 0.02
mg/L	Molybdenum	0.005	0.007	0.0009	0.0007	< 0.02	0.0024
mg/L	Nickel	0.002	0.003	0.017	0.003	< 0.02	0.008
mg/L	Phosphorus	0.2	0.2	0.7	0.8	< 0.15	0.3
mg/L	Potassium	1.9	3.1	5.1	3.3	1.2	1.3
mg/L	Selenium	<0.001	<0.001	0.003	< 0.001	0.006	< 0.001
mg/L	Silicon	18.1	23.6	21.2	7.2	4.82	17.8
mg/L	Silver	<0.00025	0.751	0.0008	< 0.00025	< 0.01	< 0.00025
mg/L	Sodium	6.25	9.79	7.46	2.01	10.2	9.36
mg/L	Strontium	0.44	0.7	0.44	0.058	0.19	0.24
mg/L	Sulphur	52.9	62.7	68	7.56		24.8
mg/L	Thallium	<0.0001	<0.0001	<0.0001	< 0.0001		< 0.0001
mg/L	Tin	0.002	<0.001	0.001	< 0.001	< 0.03	< 0.001
mg/L	Titanium	0.01	<0.001	0.006	0.014	0.02	0.067
mg/L	Uranium	0.0039	0.0056	0.001	< 0.0005		0.0018
mg/L	Vanadium	0.002	0.002	<0.001	0.003	< 0.01	0.008
mg/L	Zinc	<0.005	0.029	0.098	0.01	0.007	0.018

Alexco Resource Corp.
Brewery Creek Mine
Monitoring Pursuant to Water License QZ96-007
Surface Stations

Appendix B5.1

	Station	BC-1	BC-1	BC-1	BC-1	BC-1	BC-1
Units	Date	29-Jul-05	29-Aug-05	27-Sep-05	13-Oct-05	30-Nov-05	29-Dec-05
m/sec	Water Level or Flow						
pH units	pH (field)						
pH units	pH (lab)	7.38	7.82		7.95	8.09	7.70
uS/cm	Conductivity (field)						
uS/cm	Conductivity (lab)	377	351		380	507	536
°C	Temperature (field)						
mg CaCO ₃ /L	Hardness	208	194	203	199	275	288
mg CaCO ₃ /L	Alkalinity	109	117		119	164	160
mg/L	Total Dissolved Solids	257	265		264	352	387
mg/L	Total Suspended Solids	257	148		69	19.8	9.5
mg/L	Chloride	0.78	<0.50		0.98	<0.50	0.92
mg/L	Sulfate	80.9	76.5		90.4	122	140
mg /L	Ammonia	0.0526	0.064	0.076	0.052	0.053	0.031
mg /L	Nitrate	0.483	0.625		0.645	0.376	0.267
mg/L	Total Cyanide	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
mg/L	WAD Cyanide	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	Total Metals	TM	TM	TM	TM	TM	TM
mg/L	Aluminum	3.32	1.5	1.95	0.705	0.279	0.121
mg/L	Antimony	0.00535	0.0029	0.00314	0.00308	0.00286	0.00258
mg/L	Arsenic	0.017	0.00791	0.00819	0.00712	0.00897	0.00913
mg/L	Barium	0.198	0.148	0.134	0.0863	0.0805	0.0762
mg/L	Beryllium	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
mg/L	Bismuth	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
mg/L	Boron	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
mg/L	Cadmium	0.000245	0.000204	0.00017	0.000108	0.000069	0.000056
mg/L	Calcium	50.4	48.3	49.3	48.8	68.1	68.7
mg/L	Chromium	0.00751	0.003	0.0037	0.00167	0.00137	0.00057
mg/L	Cobalt	0.00411	0.00301	0.00355	0.00206	0.00103	0.00056
mg/L	Copper	0.0104	0.00591	0.00645	0.00284	0.00159	0.00112
mg/L	Iron	5.73	2.56	3.55	1.44	0.546	0.298
mg/L	Lead	0.00286	0.00153	0.00175	0.000642	0.000303	0.000185
mg/L	Lithium	0.0121	0.0102	0.0096	0.0092	0.0123	0.0121
mg/L	Magnesium	20	17.9	19.4	18.8	25.5	28.3
mg/L	Manganese	0.155	0.142	0.132	0.099	0.0663	0.0636
mg/L	Mercury	0.000058	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
mg/L	Molybdenum	0.00329	0.00252	0.00241	0.00257	0.00361	0.00399
mg/L	Nickel	0.0104	0.00699	0.00761	0.00456	0.00306	0.002
mg/L	Phosphorus	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
mg/L	Potassium	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
mg/L	Selenium	0.0018	0.0018	0.0029	<0.0010	<0.0010	0.003
mg/L	Silicon	11.4	7.12	8.06	6.15	5.68	5.79
mg/L	Silver	<0.000080	<0.000060	0.000036	<0.000070	0.00001	<0.000010
mg/L	Sodium	3.5	3.7	3.4	3.4	3.7	4.7
mg/L	Strontium	0.263	0.235	0.204	0.225	0.334	0.349
mg/L	Sulphur	33	24.6	26	27.5	38.5	44.8
mg/L	Thallium	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
mg/L	Tin	0.00013	<0.00010	<0.00010	<0.00010	<0.00020	<0.00010
mg/L	Titanium	0.155	0.05	0.085	0.03	<0.010	<0.010
mg/L	Uranium	0.00239	0.00181	0.00175	0.00174	0.00295	0.00307
mg/L	Vanadium	0.0144	0.0079	0.0088	0.0042	0.0027	0.0021
mg/L	Zinc	0.0279	0.0193	0.0184	0.0088	0.0049	<0.0050

Alexco Resource Corp.

Brewery Creek Mine

Monitoring Pursuant to Water License QZ96-007

Surface Stations

	File Reference						
	Station	BC-2	BC-2	BC-2	BC-2	BC-2	BC-2
Units	Date	Jan-05	Feb-05	Mar-05	30-Apr-05	31-May-05	22-Jun-05
m/sec	Water Level or Flow	No flow	No flow	No flow			
pH units	pH (field)	no sample	no sample	no sample			
pH units	pH (lab)				6.73	7.85	6.78
uS/cm	Conductivity (field)						
uS/cm	Conductivity (lab)				57.9	860	536
°C	Temperature (field)						
mg CaCO ₃ /L	Hardness				18.2	214	68.4
mg CaCO ₃ /L	Alkalinity					52	27
mg/L	Total Dissolved Solids				99	599	392
mg/L	Total Suspended Solids				3.2	123	1430
mg/L	Chloride				1.13	7.56	4.66
mg/L	Sulfate				10.3	138	94.5
mg /L	Ammonia				0.031	0.107	0.198
mg /L	Nitrate				0.379	55.4	33.7
mg/L	Total Cyanide				<0.010	0.078	0.0469
mg/L	WAD Cyanide				<0.0050	0.015	0.0482
Total Metals					TM	TM	TM
mg/L	Aluminum				0.48	1.03	9.19
mg/L	Antimony				0.002	< 0.05	0.008
mg/L	Arsenic				0.002	< 0.03	0.011
mg/L	Barium				0.061	0.095	0.8
mg/L	Beryllium				< 0.001	< 0.003	< 0.001
mg/L	Bismuth				< 0.001		< 0.001
mg/L	Boron				< 0.05	< 0.01	< 0.05
mg/L	Cadmium				< 0.0002	< 0.01	0.0007
mg/L	Calcium				4.25	48.7	46.2
mg/L	Chromium				< 0.001	< 0.01	0.017
mg/L	Cobalt				0.003	0.12	0.091
mg/L	Copper				0.003	< 0.02	0.05
mg/L	Iron				0.39	2.08	18.5
mg/L	Lead				< 0.001	< 0.03	0.023
mg/L	Lithium				0.001		0.012
mg/L	Magnesium				1.62	16.2	16.2
mg/L	Manganese				0.23	0.17	0.66
mg/L	Mercury				< 0.02	< 0.02	0.03
mg/L	Molybdenum				< 0.0005	< 0.02	0.0006
mg/L	Nickel				0.002	< 0.02	0.031
mg/L	Phosphorus				0.5	< 0.15	1.6
mg/L	Potassium				4.7	1.7	1.6
mg/L	Selenium				< 0.001	0.024	0.013
mg/L	Silicon				6.6	5.52	37.7
mg/L	Silver				< 0.00025	< 0.01	< 0.00025
mg/L	Sodium				1.71	66.4	46.9
mg/L	Strontium				0.019	0.16	0.19
mg/L	Sulphur				3.19		28.2
mg/L	Thallium				< 0.0001		< 0.0001
mg/L	Tin				< 0.001	< 0.03	< 0.001
mg/L	Titanium				0.007	0.032	0.18
mg/L	Uranium				< 0.0005		0.0019
mg/L	Vanadium				0.001	< 0.01	0.048
mg/L	Zinc				0.01	0.008	0.091

Alexco Resource Corp.
Brewery Creek Mine
Monitoring Pursuant to Water License QZ96-007
Surface Stations

Appendix B5.1

	File Reference						
	Station	BC-2	BC-2	BC-2	BC-2	BC-2	BC-2
Units	Date	29-Jul-05	31-Aug-05	27-Sep-05	13-Oct-05	30-Nov-05	29-Dec-05
m/sec	Water Level or Flow						
pH units	pH (field)						
pH units	pH (lab)	7.38	7.66		7.75	7.74	7.40
uS/cm	Conductivity (field)						
uS/cm	Conductivity (lab)	369	339		391	732	749
°C	Temperature (field)						
mg CaCO ₃ /L	Hardness	168	170	178	176	365	387
mg CaCO ₃ /L	Alkalinity	66	73.5		88.8	136	96.2
mg/L	Total Dissolved Solids	269	284		290	567	559
mg/L	Total Suspended Solids	264	797		70	57.2	12
mg/L	Chloride	2.21	1.98		2.31	2.16	2.44
mg/L	Sulfate	91.4	83.1		98.8	203	292
mg /L	Ammonia	0.117	0.179	0.063	0.06	0.141	0.113
mg /L	Nitrate	5.55	6.27		6.8	2.77	1.29
mg/L	Total Cyanide	0.013	0.0101	0.0126	0.0092	0.0098	<0.0050
mg/L	WAD Cyanide	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Total Metals		TM	TM	TM	TM	TM	TM
mg/L	Aluminum	2.78	7.36	2.21	0.816	0.675	0.118
mg/L	Antimony	0.00199	0.00174	0.00133	0.00109	0.0007	0.00038
mg/L	Arsenic	0.00373	0.00698	0.00322	0.0016	0.00104	0.0005
mg/L	Barium	0.231	0.417	0.181	0.108	0.19	0.213
mg/L	Beryllium	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
mg/L	Bismuth	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
mg/L	Boron	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
mg/L	Cadmium	0.000138	0.000292	0.000128	0.00006	0.000078	0.000165
mg/L	Calcium	40.3	41	42.9	42.4	83.4	83.6
mg/L	Chromium	0.00607	0.0125	0.00398	0.00168	0.00134	0.00056
mg/L	Cobalt	0.0227	0.0247	0.0234	0.0171	0.0163	0.0128
mg/L	Copper	0.00881	0.017	0.00653	0.00279	0.00215	0.00145
mg/L	Iron	5.16	12.9	4.69	2.03	1.51	0.552
mg/L	Lead	0.00267	0.0072	0.00293	0.000811	0.000688	<0.00030
mg/L	Lithium	0.0087	0.0142	0.0083	0.0078	0.0105	0.0114
mg/L	Magnesium	16.3	16.4	17.1	17	38.1	43.4
mg/L	Manganese	0.245	0.438	0.234	0.203	0.239	1.18
mg/L	Mercury	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
mg/L	Molybdenum	0.000688	0.000783	0.000464	0.00039	0.000254	0.000349
mg/L	Nickel	0.00926	0.0166	0.00641	0.00318	0.00377	0.00316
mg/L	Phosphorus	<0.30	0.41	<0.30	<0.30	<0.30	<0.30
mg/L	Potassium	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
mg/L	Selenium	0.0027	0.0032	0.005	0.004	<0.0010	0.0065
mg/L	Silicon	10.7	16	8.86	6.98	6.82	6.22
mg/L	Silver	<0.000070	0.000133	0.000038	<0.000040	0.000011	<0.000030
mg/L	Sodium	15.1	14.2	15	13.5	21.4	20.7
mg/L	Strontium	0.154	0.152	0.128	0.132	0.268	0.279
mg/L	Sulphur	38.4	26	29.5	30.5	82.3	108
mg/L	Thallium	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
mg/L	Tin	0.00012	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
mg/L	Titanium	0.113	0.207	0.08	0.03	0.027	<0.010
mg/L	Uranium	0.000623	0.00122	0.000682	0.000484	0.000406	0.000103
mg/L	Vanadium	0.0101	0.0246	0.0086	0.0035	0.0025	<0.0010
mg/L	Zinc	0.022	0.0457	0.0151	0.0053	0.0087	0.0132

Alexco Resource Corp.
Brewery Creek Mine
Monitoring Pursuant to Water License QZ96-007
Surface Stations

Appendix B5.1

	Station	BC-3	BC-3	BC-3	BC-3	BC-3	BC-3
Units	Date	23-Jan-05	7-Feb-05	14-Mar-05	30-Apr-05	31-May-05	22-Jun-05
m/sec	Water Level or Flow						
pH units	pH (field)						
pH units	pH (lab)	8.12	8.03	7.57	7.50	8.28	7.83
uS/cm	Conductivity (field)						
uS/cm	Conductivity (lab)	725	748	658	161	419	383
°C	Temperature (field)						
mg CaCO ₃ /L	Hardness	389	413	340	70.8	223	198
mg CaCO ₃ /L	Alkalinity	204	204	182		125	122
mg/L	Total Dissolved Solids	496	508	510	154	264	254
mg/L	Total Suspended Solids	<3.0	<3.0	2	7.2	86.2	73
mg/L	Chloride	0.57	0.54	0.69	0.88	0.89	0.94
mg/L	Sulfate	208	207	200	35.4	87.9	84.2
mg /L	Ammonia	<0.02	0.0193	<0.005	0.074	0.03	0.089
mg /L	Nitrate	0.231	0.246	0.33	0.75	2.84	0.242
mg/L	Total Cyanide	<0.005	<0.005	<0.002	<0.010	<0.010	<0.0050
mg/L	WAD Cyanide	<0.005	<0.005	<0.002	<0.010	<0.010	<0.0050
	Total Metals	TM	TM	TM	TM	TM	TM
mg/L	Aluminum	0.038	0.019	0.017	0.73	0.35	0.63
mg/L	Antimony	0.003	0.004	0.003	0.008	< 0.05	0.004
mg/L	Arsenic	0.001	0.002	0.002	0.011	< 0.03	0.004
mg/L	Barium	0.084	0.11	0.086	0.068	0.047	0.1
mg/L	Beryllium	<0.001	<0.001	<0.001	< 0.001	< 0.003	< 0.001
mg/L	Bismuth	<0.001	<0.001	<0.001	< 0.001		< 0.001
mg/L	Boron	<0.001	<0.05	<0.05	< 0.05	< 0.01	< 0.05
mg/L	Cadmium	<0.001	<0.0002	<0.0002	< 0.0002	< 0.01	< 0.0002
mg/L	Calcium	102	101	105	16.9	43.8	54.9
mg/L	Chromium	<0.001	<0.001	<0.001	< 0.001	< 0.01	0.001
mg/L	Cobalt	<0.001	<0.001	0.001	0.002	< 0.02	0.001
mg/L	Copper	<0.001	<0.001	0.002	0.004	< 0.02	0.004
mg/L	Iron	0.29	0.09	0.29	0.77	0.58	1.24
mg/L	Lead	<0.001	<0.001	<0.001	< 0.001	< 0.03	< 0.001
mg/L	Lithium	0.019	0.024	0.018	0.004		0.011
mg/L	Magnesium	42.2	39.1	41.5	6.91	16.8	21.1
mg/L	Manganese	0.098	0.15	0.12	0.069	0.041	0.089
mg/L	Mercury	<0.00002	<0.00002	<0.00002	0.06	< 0.02	0.04
mg/L	Molybdenum	0.0022	0.0032	0.0026	0.0007	< 0.02	0.0021
mg/L	Nickel	0.003	0.004	0.002	0.003	< 0.02	0.006
mg/L	Phosphorus	<0.15	0.15	0.15	0.5	< 0.15	0.2
mg/L	Potassium	2.2	2.5	2	2.6	1.1	1.3
mg/L	Selenium	<0.001	<0.001	<0.001	< 0.001	0.004	< 0.001
mg/L	Silicon	11.9	15	11.6	8.9	3.77	12.1
mg/L	Silver	<0.00025	<0.00025	0.001	< 0.00025	< 0.01	< 0.00025
mg/L	Sodium	5.44	7.39	5.52	2.75	2.1	2.74
mg/L	Strontium	0.54	0.73	0.55	0.077	0.22	0.28
mg/L	Sulphur	66.1	68.1	56.2	10.6		25.9
mg/L	Thallium	<0.0001	<0.0001	<0.0001	< 0.0001		< 0.0001
mg/L	Tin	<0.001	<0.001	<0.001	< 0.001	< 0.03	< 0.001
mg/L	Titanium	0.002	<0.001	<0.001	0.013	0.01	0.021
mg/L	Uranium	0.0031	0.0039	0.0031	< 0.0005		0.0015
mg/L	Vanadium	<0.001	<0.001	<0.001	0.002	< 0.01	0.003
mg/L	Zinc	0.007	0.007	0.006	0.011	0.006	0.009

Alexco Resource Corp.

Brewery Creek Mine

Monitoring Pursuant to Water License QZ96-007

Surface Stations

	Station	BC-3	BC-3	BC-3	BC-3	BC-3	BC-3
Units	Date	29-Jul-05	31-Aug-05	27-Sep-05	13-Oct-05	30-Nov-05	29-Dec-05
m/sec	Water Level or Flow						
pH units	pH (field)						
pH units	pH (lab)	7.84	7.71		7.97	7.94	7.92
uS/cm	Conductivity (field)						
uS/cm	Conductivity (lab)	425	362		419	569	608
°C	Temperature (field)						
mg CaCO ₃ /L	Hardness	236	218	230	242	320	345
mg CaCO ₃ /L	Alkalinity	121	122		136	183	179
mg/L	Total Dissolved Solids	286	250		287	394	475
mg/L	Total Suspended Solids	279	373		59.5	9.2	4
mg/L	Chloride	0.69	<0.50		0.89	0.51	0.94
mg/L	Sulfate	91.2	84.6		105	157	167
mg /L	Ammonia	0.0495	0.096	0.075	0.047	<0.020	0.03
mg /L	Nitrate	0.196	0.216		0.252	0.376	0.251
mg/L	Total Cyanide	0.119	<0.0050	<0.0050	<0.0050	0.0101	<0.0050
mg/L	WAD Cyanide	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Total Metals		TM	TM	TM	TM	TM	TM
mg/L	Aluminum	3.17	3.68	1.55	0.427	0.0949	0.0469
mg/L	Antimony	0.0057	0.00321	0.00374	0.00379	0.00364	0.00348
mg/L	Arsenic	0.0112	0.00743	0.00534	0.00307	0.00246	0.00345
mg/L	Barium	0.193	0.199	0.118	0.0739	0.0719	0.0708
mg/L	Beryllium	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
mg/L	Bismuth	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
mg/L	Boron	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
mg/L	Cadmium	0.000227	0.000246	0.000164	0.00009	0.000075	0.00007
mg/L	Calcium	57	53.6	54.9	61	77.9	82.2
mg/L	Chromium	0.00686	0.0067	0.00287	0.00103	0.00065	<0.00050
mg/L	Cobalt	0.0031	0.00389	0.00231	0.00128	0.00111	0.00071
mg/L	Copper	0.0106	0.0121	0.00606	0.00242	0.00099	0.00149
mg/L	Iron	5.47	6.27	3.17	0.944	0.307	0.285
mg/L	Lead	0.0027	0.00349	0.00184	0.000451	0.000137	0.000231
mg/L	Lithium	0.0127	0.0151	0.0105	0.0114	0.014	0.0137
mg/L	Magnesium	22.8	20.4	22.5	21.8	30.5	34
mg/L	Manganese	0.188	0.245	0.147	0.113	0.109	0.113
mg/L	Mercury	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
mg/L	Molybdenum	0.00293	0.00224	0.00197	0.00222	0.00251	0.00223
mg/L	Nickel	0.0102	0.0126	0.00777	0.00471	0.00345	0.00315
mg/L	Phosphorus	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
mg/L	Potassium	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
mg/L	Selenium	0.002	0.0015	0.0025	0.0017	<0.0010	0.0031
mg/L	Silicon	10.1	9.79	6.91	4.92	4.33	4.74
mg/L	Silver	<0.000090	<0.000080	0.000026	<0.000020	<0.000010	0.000012
mg/L	Sodium	2.5	2.8	2.5	2.6	3.3	4.5
mg/L	Strontium	0.302	0.263	0.231	0.261	0.395	0.402
mg/L	Sulphur	37.3	27	29.7	32.5	46.7	55.4
mg/L	Thallium	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
mg/L	Tin	0.00011	0.0001	<0.00010	<0.00010	<0.00010	<0.00010
mg/L	Titanium	0.15	0.132	0.072	0.018	<0.010	<0.010
mg/L	Uranium	0.002	0.00175	0.0015	0.00153	0.00235	0.00244
mg/L	Vanadium	0.0125	0.0128	0.0063	0.0021	<0.0010	<0.0010
mg/L	Zinc	0.0274	0.0304	0.0178	0.009	0.006	0.0064

Alexco Resource Corp.

Brewery Creek Mine

Monitoring Pursuant to Water License QZ96-007

Surface Stations

	Station	BC-4	BC-4	BC-4	BC-4
Units	Date	30-Apr-05	29-Aug-05	27-Sep-05	29-Dec-05
m/sec	Water Level or Flow				
pH units	pH (field)				
pH units	pH (lab)	7.97	8.14	8.05	8.02
uS/cm	Conductivity (field)				
uS/cm	Conductivity (lab)	485	555	279	860
°C	Temperature (field)				
mg CaCO ₃ /L	Hardness	253	317	146	502
mg CaCO ₃ /L	Alkalinity		153	94	230
mg/L	Total Dissolved Solids	340	393	234	620
mg/L	Total Suspended Solids	27.7	58.8	10	3.5
mg/L	Chloride	<0.50	<0.50	0.42	0.72
mg/L	Sulfate	152	162	85.1	281
mg /L	Ammonia	0.022	0.042	0.03	0.021
mg /L	Nitrate	0.836	0.278	0.699	0.3
mg/L	Total Cyanide	-	-	-	-
mg/L	WAD Cyanide	-	-	-	-
	Total Metals	TM	TM	TM	TM
mg/L	Aluminum	0.28	0.574	0.12	0.0191
mg/L	Antimony	0.004	0.00437	0.003	0.00381
mg/L	Arsenic	0.008	0.00478	0.004	0.00272
mg/L	Barium	0.081	0.103	0.078	0.0859
mg/L	Beryllium	< 0.001	<0.00050	< 0.001	<0.00050
mg/L	Bismuth	< 0.001	<0.00050	< 0.001	<0.00050
mg/L	Boron	< 0.05	<0.010	< 0.05	<0.010
mg/L	Cadmium	< 0.0002	0.000147	< 0.0002	0.000154
mg/L	Calcium	56.6	77.3	41.4	121
mg/L	Chromium	< 0.001	0.00123	< 0.001	<0.00050
mg/L	Cobalt	0.001	0.00078	0.002	0.00041
mg/L	Copper	0.002	0.0024	0.002	0.00045
mg/L	Iron	1.22	1.17	0.38	0.237
mg/L	Lead	< 0.001	0.00117	< 0.001	0.000056
mg/L	Lithium	0.004	0.0073	0.007	0.006
mg/L	Magnesium	23.4	30.2	14.7	48.5
mg/L	Manganese	0.16	0.122	0.023	0.173
mg/L	Mercury	0.02	<0.000050	< 0.02	<0.000050
mg/L	Molybdenum	0.0011	0.00187	0.0019	0.00261
mg/L	Nickel	0.006	0.00419	0.003	0.00396
mg/L	Phosphorus	0.2	<0.30	< 0.15	<0.30
mg/L	Potassium	1.4	<2.0	0.9	<2.0
mg/L	Selenium	0.004	0.0024	< 0.001	0.0047
mg/L	Silicon	6.2	4.08	11	3.65
mg/L	Silver	< 0.00025	<0.000020	< 0.00025	<0.000010
mg/L	Sodium	1.18	<2.0	3.27	<2.0
mg/L	Strontium	0.29	0.392	0.19	0.527
mg/L	Sulphur	46.3	52.1	22.5	93.4
mg/L	Thallium	< 0.0001	<0.00010	< 0.0001	<0.00010
mg/L	Tin	< 0.001	<0.00010	0.003	<0.00010
mg/L	Titanium	0.007	0.021	0.005	<0.010
mg/L	Uranium	0.0014	0.00254	0.0012	0.00491
mg/L	Vanadium	0.003	0.0031	0.001	<0.0010
mg/L	Zinc	0.02	0.0133	< 0.005	0.0115

Alexco Resource Corp.

Brewery Creek Mine

Monitoring Pursuant to Water License QZ96-007

Surface Stations

	Station	BC-5	BC-5	BC-5	BC-5
Units	Date	Apr-05	24-Jun-05	29-Aug-05	29-Dec-05
m/sec	Water Level or Flow	No Access			
pH units	pH (field)				
pH units	pH (lab)		8.10	8.14	8.10
uS/cm	Conductivity (field)				
uS/cm	Conductivity (lab)		399	369	683
°C	Temperature (field)				
mg CaCO ₃ /L	Hardness		212	208	385
mg CaCO ₃ /L	Alkalinity		129	119	217
mg/L	Total Dissolved Solids		258	284	483
mg/L	Total Suspended Solids		15.4	5.8	<3.0
mg/L	Chloride		0.81	<0.50	0.8
mg/L	Sulfate		90.8	82.1	188
mg /L	Ammonia		0.06	0.039	<0.020
mg /L	Nitrate		0.071	0.0736	0.153
mg/L	Total Cyanide		-	-	-
mg/L	WAD Cyanide		-	-	-
Total Metals		TM	TM	TM	TM
mg/L	Aluminum		0.23	0.156	0.0177
mg/L	Antimony		< 0.001	0.00066	0.00038
mg/L	Arsenic		< 0.001	0.00077	0.00038
mg/L	Barium		0.081	0.0843	0.0845
mg/L	Beryllium		< 0.001	<0.00050	<0.00050
mg/L	Bismuth		< 0.001	<0.00050	<0.00050
mg/L	Boron		< 0.05	<0.010	<0.010
mg/L	Cadmium		< 0.0002	0.000079	0.000085
mg/L	Calcium		52.9	52.4	92.9
mg/L	Chromium		< 0.001	0.00072	<0.00050
mg/L	Cobalt		< 0.001	0.00022	<0.00010
mg/L	Copper		0.003	0.0024	0.00097
mg/L	Iron		0.43	0.331	0.07
mg/L	Lead		< 0.001	0.000118	<0.000050
mg/L	Lithium		0.004	<0.0050	0.0052
mg/L	Magnesium		19.6	18.9	37.1
mg/L	Manganese		0.025	0.031	0.0118
mg/L	Mercury		0.05	<0.000050	<0.000050
mg/L	Molybdenum		0.0026	0.00292	0.00287
mg/L	Nickel		0.005	0.00498	0.00298
mg/L	Phosphorus		< 0.15	<0.30	<0.30
mg/L	Potassium		0.6	<2.0	<2.0
mg/L	Selenium		< 0.001	0.0018	0.0029
mg/L	Silicon		9.2	3.97	3.86
mg/L	Silver		< 0.00025	<0.000020	<0.000010
mg/L	Sodium		1.47	<2.0	2
mg/L	Strontium		0.2	0.195	0.345
mg/L	Sulphur		27.6	26.3	59.5
mg/L	Thallium		< 0.0001	<0.00010	<0.00010
mg/L	Tin		< 0.001	<0.00010	<0.00010
mg/L	Titanium		0.007	<0.010	<0.010
mg/L	Uranium		0.0014	0.00125	0.00312
mg/L	Vanadium		0.002	0.0021	<0.0010
mg/L	Zinc		0.012	0.0166	0.0168

Alexco Resource Corp.

Brewery Creek Mine

Monitoring Pursuant to Water License QZ96-007

Surface Stations

	Station	BC-6	BC-6	BC-6	BC-6
Units	Date	30-Apr-05	24-Jun-05	29-Aug-05	29-Dec-05
m/sec	Water Level or Flow				
pH units	pH (field)				
pH units	pH (lab)	7.83	8.04	8.09	7.96
uS/cm	Conductivity (field)				
uS/cm	Conductivity (lab)	180	273	327	321
°C	Temperature (field)				
mg CaCO ₃ /L	Hardness	88.2	135	182	175
mg CaCO ₃ /L	Alkalinity		86.8	106	99.6
mg/L	Total Dissolved Solids	138	166	216	206
mg/L	Total Suspended Solids	73.7	9	3.8	<3.0
mg/L	Chloride	<0.50	<0.50	<0.50	0.6
mg/L	Sulfate	38.3	57.6	71.3	69.9
mg /L	Ammonia	<0.020	0.056	0.03	0.07
mg /L	Nitrate	0.0882	0.0721	0.0749	0.192
mg/L	Total Cyanide	-	<0.0050	<0.0050	<0.0050
mg/L	WAD Cyanide	-	<0.0050	<0.0050	<0.0050
	Total Metals	TM	TM	TM	TM
mg/L	Aluminum	0.66	0.035	0.0367	0.006
mg/L	Antimony	< 0.001	< 0.001	0.00022	0.00015
mg/L	Arsenic	0.003	< 0.001	0.00047	0.00046
mg/L	Barium	0.076	0.053	0.0533	0.0606
mg/L	Beryllium	< 0.001	< 0.001	<0.00050	<0.00050
mg/L	Bismuth	< 0.001	< 0.001	<0.00050	<0.00050
mg/L	Boron	< 0.05	< 0.05	<0.010	<0.010
mg/L	Cadmium	< 0.0002	< 0.0002	0.000067	<0.000050
mg/L	Calcium	21.7	36.6	47.6	44.9
mg/L	Chromium	< 0.001	< 0.001	<0.00050	<0.00050
mg/L	Cobalt	< 0.001	< 0.001	<0.00010	<0.00010
mg/L	Copper	0.004	0.002	0.00121	0.00044
mg/L	Iron	1.15	0.11	0.09	<0.030
mg/L	Lead	< 0.001	< 0.001	<0.000050	<0.000050
mg/L	Lithium	0.002	0.002	<0.0050	<0.0050
mg/L	Magnesium	7.5	11.5	15.4	15.4
mg/L	Manganese	0.094	0.007	0.00946	0.00496
mg/L	Mercury	< 0.02	< 0.02	<0.000050	<0.000050
mg/L	Molybdenum	< 0.0005	0.0007	0.000947	0.000493
mg/L	Nickel	0.003	< 0.001	0.00152	<0.00050
mg/L	Phosphorus	0.4	< 0.15	<0.30	<0.30
mg/L	Potassium	1.1	0.5	<2.0	<2.0
mg/L	Selenium	< 0.001	< 0.001	0.0015	0.0018
mg/L	Silicon	6.1	6.6	3.05	3.03
mg/L	Silver	< 0.00025	< 0.00025	<0.000010	<0.000010
mg/L	Sodium	1.32	1.86	<2.0	2.8
mg/L	Strontium	0.12	0.2	0.213	0.225
mg/L	Sulphur	11.4	16.7	22.8	24.3
mg/L	Thallium	< 0.0001	< 0.0001	<0.00010	<0.00010
mg/L	Tin	< 0.001	< 0.001	<0.00010	<0.00010
mg/L	Titanium	0.015	0.001	<0.010	<0.010
mg/L	Uranium	0.0006	0.0006	0.000883	0.00105
mg/L	Vanadium	0.002	< 0.001	<0.0010	<0.0010
mg/L	Zinc	0.014	0.007	<0.0050	0.002

Alexco Resource Corp.

Brewery Creek Mine

Monitoring Pursuant to Water License QZ96-007

Surface Stations

	Station	BC-16	BC-16	BC-16	BC-16
Units	Date	30-Apr-05	23-Jun-05	August	29-Dec-05
m/sec	Water Level or Flow	no flow		no flow	no flow
pH units	pH (field)				
pH units	pH (lab)		7.85		
uS/cm	Conductivity (field)				
uS/cm	Conductivity (lab)		691		
°C	Temperature (field)				
mg CaCO ₃ /L	Hardness		379		
mg CaCO ₃ /L	Alkalinity		159		
mg/L	Total Dissolved Solids		488		
mg/L	Total Suspended Solids		<3.0		
mg/L	Chloride		1.86		
mg/L	Sulfate		228		
mg /L	Ammonia		0.036		
mg /L	Nitrate		0.357		
mg/L	Total Cyanide		-		
mg/L	WAD Cyanide		-		
	Total Metals	TM	TM	TM	TM
mg/L	Aluminum		0.022		
mg/L	Antimony		0.047		
mg/L	Arsenic		0.005		
mg/L	Barium		0.054		
mg/L	Beryllium		< 0.001		
mg/L	Bismuth		< 0.001		
mg/L	Boron		< 0.05		
mg/L	Cadmium		< 0.0002		
mg/L	Calcium		110		
mg/L	Chromium		< 0.001		
mg/L	Cobalt		< 0.001		
mg/L	Copper		0.001		
mg/L	Iron		0.07		
mg/L	Lead		< 0.001		
mg/L	Lithium		0.004		
mg/L	Magnesium		26.5		
mg/L	Manganese		0.007		
mg/L	Mercury		0.06		
mg/L	Molybdenum		0.0008		
mg/L	Nickel		0.002		
mg/L	Phosphorus		< 0.15		
mg/L	Potassium		1.3		
mg/L	Selenium		< 0.001		
mg/L	Silicon		10.2		
mg/L	Silver		< 0.00025		
mg/L	Sodium		1.66		
mg/L	Strontium		0.31		
mg/L	Sulphur		69.2		
mg/L	Thallium		< 0.0001		
mg/L	Tin		< 0.001		
mg/L	Titanium		0.001		
mg/L	Uranium		0.0027		
mg/L	Vanadium		< 0.001		
mg/L	Zinc		0.007		

Alexco Resource Corp.
Brewery Creek Mine
Monitoring Pursuant to Water License QZ96-007
BC-28

Units	Water License Discharge Standards ¹	Station	BC-28	BC-28	BC-28	BC-28
		Date	31-May-05	22-Jun-05	29-Jul-05	29-Aug-05
m/sec		Water Level or Flow				
pH units		pH (field)				
pH units	6.0 - 9.5	pH (lab)	8.28	8.28	7.78	8.11
uS/cm		Conductivity (field)				
uS/cm		Conductivity (lab)	1580	1150	2660	2330
°C		Temperature (field)				
mg CaCO ₃ /L		Hardness	291	243	558	543
mg CaCO ₃ /L		Alkalinity	52	62.5	65.9	82.6
mg/L		Total Dissolved Solids	1090	828	2120	1830
mg/L	50	Total Suspended Solids	8.2	<3.0	4.6	17.3
mg/L		Chloride	12.7	10.2	25.3	24.1
mg/L		Sulfate	230	161	310	332
mg /L	15.0	Ammonia	0.072	0.284	0.226	0.28
mg /L		Nitrate	94.6	87.5	227	212
mg/L	2.0	Total Cyanide	0.155	0.116	0.182	0.346
mg/L	0.25	WAD Cyanide	0.09	0.123	0.131	0.228
Total Metals			TM	TM	TM	TM
mg/L	1.0	Aluminum	0.15	0.042	0.0733	0.3
mg/L	1.0	Antimony	0.62	0.45	0.847	0.777
mg/L	0.5	Arsenic	0.25	0.14	0.16	0.126
mg/L		Barium	0.038	0.12	0.273	0.323
mg/L		Beryllium	< 0.003	< 0.001	<0.0025	<0.0025
mg/L	0.5	Bismuth		< 0.001	<0.0025	<0.0025
mg/L		Boron	< 0.01	< 0.05	0.302	0.365
mg/L	0.1	Cadmium	< 0.01	< 0.0002	<0.00025	<0.00025
mg/L		Calcium	90.9	74.3	172	171
mg/L	0.5	Chromium	< 0.01	< 0.001	<0.0025	<0.0025
mg/L		Cobalt	0.27	0.21	0.646	0.583
mg/L	0.2	Copper	< 0.02	0.002	0.00219	0.00309
mg/L	1.0	Iron	0.16	0.08	0.059	0.288
mg/L	0.2	Lead	< 0.03	< 0.001	<0.00025	0.00061
mg/L		Lithium		0.001	<0.025	<0.025
mg/L		Magnesium	13.6	12.3	31.3	28.5
mg/L	2.0	Manganese	0.007	0.009	0.0439	0.124
mg/L	0.005	Mercury	0.05	0.1	<0.000050	0.000098
mg/L	0.5	Molybdenum	0.02	0.014	0.0265	0.024
mg/L	0.8	Nickel	< 0.02	0.003	0.0043	0.0045
mg/L		Phosphorus	< 0.15	< 0.15	<0.30	<0.30
mg/L		Potassium	2.1	2.1	3.4	4.4
mg/L	0.25	Selenium	0.065	0.049	0.079	0.099
mg/L		Silicon	1.49	4.1	1.6	1.3
mg/L	0.1	Silver	< 0.01	< 0.00025	<0.000080	0.000105
mg/L		Sodium	147	128	346	284
mg/L		Strontium	0.38	0.34	0.866	0.867
mg/L		Sulphur		47.6	142	108
mg/L		Thallium		< 0.0001	<0.00050	<0.00050
mg/L		Tin	< 0.03	< 0.001	<0.00050	<0.00050
mg/L		Titanium	< 0.005	< 0.001	<0.010	<0.010
mg/L		Uranium		0.0037	0.0119	0.011
mg/L		Vanadium	< 0.01	< 0.001	<0.0050	<0.0050
mg/L	0.5	Zinc	< 0.005	< 0.005	<0.0050	<0.0060

Alexco Resource Corp.
Brewery Creek Mine
Monitoring Pursuant to Water License QZ96-007
BC-28a Heap Effluent

Units	Water License Discharge Standards ¹	File Reference				
		Station	BC-28a	BC-28a	BC-28a	BC-28a
		Date	30-Apr-05	31-May-05	22-Jun-05	29-Jul-05
m/sec		Water Level or Flow				
pH units		pH (field)				
pH units	6.0 - 9.5	pH (lab)	7.75	8.13	7.94	7.80
uS/cm		Conductivity (field)				
uS/cm		Conductivity (lab)	1180	3800	3320	3740
°C		Temperature (field)				
mg CaCO ₃ /L		Hardness	231	779	766	866
mg CaCO ₃ /L		Alkalinity		115	127	126
mg/L		Total Dissolved Solids	858	3030	2920	3220
mg/L	50	Total Suspended Solids	19.7	<3.0	<3.0	9.6
mg/L		Chloride	10.4	31.7	28.9	33.1
mg/L		Sulfate	181	484	471	466
mg/L	5.0	Ammonia	0.075	0.024	0.04	0.0582
mg/L		Nitrate	89.7	353	314	333
mg/L	2.0	Total Cyanide	0.081	0.629	0.514	0.888
mg/L	0.25	WAD Cyanide	0.03	0.121	0.611	0.086
Total Metals			TM	TM	TM	TM
mg/L	1.0	Aluminum	0.25	0.08	0.047	0.0182
mg/L	1.0	Antimony	0.52	1.03	1.1	1.16
mg/L	0.5	Arsenic	0.23	0.32	0.37	0.357
mg/L		Barium	0.071	0.04	0.099	0.0883
mg/L		Beryllium	<0.001	<0.003	<0.001	<0.0025
mg/L	0.5	Bismuth	<0.001		<0.001	<0.0025
mg/L		Boron	<0.05	<0.01	<0.05	<0.050
mg/L	0.1	Cadmium	<0.0002	<0.01	<0.0002	0.00035
mg/L		Calcium	67.5	284	247	272
mg/L	0.5	Chromium	<0.001	<0.01	<0.001	<0.0025
mg/L		Cobalt	0.21	0.77	0.72	0.933
mg/L	0.2	Copper	0.002	<0.02	0.003	0.00124
mg/L	1.0	Iron	0.39	0.17	0.28	0.221
mg/L	0.2	Lead	<0.001	<0.03	<0.001	<0.00025
mg/L		Lithium	0.001		0.004	<0.025
mg/L		Magnesium	9.03	41.8	39	45.4
mg/L	2.0	Manganese	0.019	0.034	0.049	0.0694
mg/L	0.005	Mercury	0.11	0.05	0.08	0.000068
mg/L	0.5	Molybdenum	0.018	0.02	0.03	0.0304
mg/L	0.5	Nickel	0.003	<0.02	0.008	0.0123
mg/L		Phosphorus	0.3	<0.15	0.2	<0.30
mg/L		Potassium	1.9	4.2	4.5	4.1
mg/L	0.05	Selenium	0.046	0.15	0.13	0.101
mg/L		Silicon	4.5	3.39	7.9	3.81
mg/L	0.1	Silver	<0.00025	<0.01	<0.00025	<0.000050
mg/L		Sodium	146	333	401	511
mg/L		Strontium	0.34	1	1.15	1.33
mg/L		Sulphur	55.2		148	194
mg/L		Thallium	<0.0001		<0.0001	<0.00050
mg/L		Tin	<0.001	<0.03	<0.001	<0.00050
mg/L		Titanium	0.006	<0.005	0.002	<0.010
mg/L		Uranium	0.0031		0.013	0.0177
mg/L		Vanadium	<0.001	<0.01	<0.001	<0.0050
mg/L	0.5	Zinc	0.006	0.009	0.008	0.0119

Alexco Resource Corp.
Brewery Creek Mine
Monitoring Pursuant to Water License QZ96-007
BC-28a Heap Effluent

Units	Water License Discharge Standards ¹	File Reference	ALS Labs	Chemex	BC-28a
		Station	BC-28a	BC-28a	BC-28a
		Date	31-Aug-05	27-Sep-05	13-Oct-05
m/sec		Water Level or Flow			
pH units		pH (field)			
pH units	6.0 - 9.5	pH (lab)	8.10	7.89	7.83
uS/cm		Conductivity (field)			
uS/cm		Conductivity (lab)	2230	2810	2630
°C		Temperature (field)			
mg CaCO ₃ /L		Hardness	556	779	709
mg CaCO ₃ /L		Alkalinity	133	121	124
mg/L		Total Dissolved Solids	1740	2290	2210
mg/L	50	Total Suspended Solids	281	2	3.5
mg/L		Chloride	19.8	25.5	22.9
mg/L		Sulfate	327	460	441
mg /L	5.0	Ammonia	0.05	0.025	<0.020
mg /L		Nitrate	192		232
mg/L	2.0	Total Cyanide	0.542	0.731	0.965
mg/L	0.25	WAD Cyanide	0.227	0.0652	0.451
Total Metals			TM	TM	TM
mg/L	1.0	Aluminum	3.68	0.0236	0.014
mg/L	1.0	Antimony	1.11	1.19	1.24
mg/L	0.5	Arsenic	0.702	0.382	0.35
mg/L		Barium	0.301	0.073	0.081
mg/L		Beryllium	<0.0025	<0.0025	<0.001
mg/L	0.5	Bismuth	<0.0025	<0.0025	<0.001
mg/L		Boron	<0.050	<0.050	<0.05
mg/L	0.1	Cadmium	0.00106	<0.00025	<0.0002
mg/L		Calcium	179	244	217
mg/L	0.5	Chromium	0.008	<0.0025	<0.001
mg/L		Cobalt	0.508	0.589	0.61
mg/L	0.2	Copper	0.0132	0.00111	0.002
mg/L	1.0	Iron	8.29	0.193	0.28
mg/L	0.2	Lead	0.015	<0.00025	<0.001
mg/L		Lithium	<0.025	<0.025	0.003
mg/L		Magnesium	30.2	41	35.9
mg/L	2.0	Manganese	0.334	0.0391	0.038
mg/L	0.005	Mercury	<0.000050	0.000081	0.06
mg/L	0.5	Molybdenum	0.0266	0.0313	0.028
mg/L	0.5	Nickel	0.0182	0.0079	0.008
mg/L		Phosphorus	<0.30	<0.30	0.2
mg/L		Potassium	4.4	4.3	4.1
mg/L	0.05	Selenium	0.104	0.148	0.1
mg/L		Silicon	8.97	3.61	7.9
mg/L	0.1	Silver	0.000203	<0.000050	<0.00025
mg/L		Sodium	261	338	324
mg/L		Strontium	0.869	1.01	1.07
mg/L		Sulphur	106	159	157
mg/L		Thallium	<0.00050	<0.00050	0.0002
mg/L		Tin	<0.00050	<0.00050	<0.001
mg/L		Titanium	0.129	<0.010	<0.001
mg/L		Uranium	0.0132	0.0175	0.015
mg/L		Vanadium	0.0169	<0.0050	<0.001
mg/L	0.5	Zinc	0.0629	0.0059	0.005

Alexco Resource Corp.
Brewery Creek Mine
Monitoring Pursuant to Water License QZ96-007
BC-28a Heap Effluent

Units	Water License Discharge Standards ¹	File Reference		
		Station	BC-28a	BC-28a
		Date	30-Nov-05	29-Dec-05
m/sec		Water Level or Flow		
pH units		pH (field)		
pH units	6.0 - 9.5	pH (lab)	7.94	7.84
uS/cm		Conductivity (field)		
uS/cm		Conductivity (lab)	3000	3740
°C		Temperature (field)		
mg CaCO ₃ /L		Hardness	638	884
mg CaCO ₃ /L		Alkalinity	129	125
mg/L		Total Dissolved Solids	2430	3220
mg/L	50	Total Suspended Solids	<3.0	<3.0
mg/L		Chloride	20.6	36.2
mg/L		Sulfate	335	481
mg/L	5.0	Ammonia	<0.020	<0.020
mg/L		Nitrate	210	355
mg/L	2.0	Total Cyanide	0.765	0.65
mg/L	0.25	WAD Cyanide	0.065	0.062
Total Metals			TM	TM
mg/L	1.0	Aluminum	0.0133	0.0309
mg/L	1.0	Antimony	1.12	1.4
mg/L	0.5	Arsenic	0.353	0.391
mg/L		Barium	0.0701	0.0834
mg/L		Beryllium	<0.0025	<0.0025
mg/L	0.5	Bismuth	<0.0025	<0.0025
mg/L		Boron	<0.050	<0.050
mg/L	0.1	Cadmium	<0.00025	0.00031
mg/L		Calcium	201	275
mg/L	0.5	Chromium	<0.0025	<0.0025
mg/L		Cobalt	0.559	0.88
mg/L	0.2	Copper	0.00135	0.00099
mg/L	1.0	Iron	0.168	0.238
mg/L	0.2	Lead	<0.00025	<0.00025
mg/L		Lithium	<0.025	<0.025
mg/L		Magnesium	33.1	48.1
mg/L	2.0	Manganese	0.0162	0.0222
mg/L	0.005	Mercury	<0.000050	0.000051
mg/L	0.5	Molybdenum	0.0328	0.0344
mg/L	0.5	Nickel	0.0046	0.0067
mg/L		Phosphorus	<0.30	<0.30
mg/L		Potassium	3.4	6.5
mg/L	0.05	Selenium	0.109	0.166
mg/L		Silicon	2.73	3.6
mg/L	0.1	Silver	<0.000050	<0.000050
mg/L		Sodium	338	440
mg/L		Strontium	0.902	1.42
mg/L		Sulphur	116	175
mg/L		Thallium	<0.00050	<0.00050
mg/L		Tin	<0.00050	<0.00050
mg/L		Titanium	<0.010	<0.010
mg/L		Uranium	0.0132	0.0191
mg/L		Vanadium	<0.0050	<0.0050
mg/L	0.5	Zinc	<0.0050	0.006

Alexco Resource Corp.
Brewery Creek Mine
Monitoring Pursuant to Water License QZ96-007
Surface Stations

Appendix B5.1

	Station	BC-39	BC-39	BC-39	BC-39	BC-39	BC-39
Units	Date	30-Apr-05	23-Jun-05	31-Aug-05	27-Sep-05	13-Oct-05	30-Nov-05
m/sec	Water Level or Flow						No Flow
pH units	pH (field)						
pH units	pH (lab)	7.46	7.61	8.11		8.16	
uS/cm	Conductivity (field)						
uS/cm	Conductivity (lab)	94.2	384	339		378	
°C	Temperature (field)						
mg CaCO ₃ /L	Hardness	42.6	184	177	192	203	
mg CaCO ₃ /L	Alkalinity		108	115		121	
mg/L	Total Dissolved Solids	108	261	213		266	
mg/L	Total Suspended Solids	8.2	19	4.3		<3.0	
mg/L	Chloride	0.64	1.39	<0.50		0.75	
mg/L	Sulfate	17.3	80.9	74.5		89.6	
mg /L	Ammonia	0.028	0.044	0.035	0.023	0.022	
mg /L	Nitrate	0.208	4.34	0.563		0.596	
mg/L	Total Cyanide	<0.010	0.007	<0.0050	0.0079	<0.0050	
mg/L	WAD Cyanide	<0.0050	0.0061	<0.0050	<0.0050	<0.0050	
	Total Metals	TM	TM	TM	TM	TM	
mg/L	Aluminum	0.39	0.38	0.203	0.144	0.0833	
mg/L	Antimony	0.004	0.005	0.00288	0.00286	0.00295	
mg/L	Arsenic	0.008	0.005	0.00475	0.00412	0.00427	
mg/L	Barium	0.048	0.099	0.0944	0.0638	0.0644	
mg/L	Beryllium	< 0.001	< 0.001	<0.00050	<0.00050	<0.00050	
mg/L	Bismuth	< 0.001	< 0.001	<0.00050	<0.00050	<0.00050	
mg/L	Boron	< 0.05	< 0.05	<0.010	<0.010	<0.010	
mg/L	Cadmium	< 0.0002	< 0.0002	0.000058	<0.000050	<0.000050	
mg/L	Calcium	9.78	43.9	43.6	46	49.5	
mg/L	Chromium	0.002	< 0.001	0.00084	<0.00050	<0.00050	
mg/L	Cobalt	0.001	0.01	0.0016	0.00162	0.00127	
mg/L	Copper	0.002	0.003	0.00245	0.00184	0.00122	
mg/L	Iron	0.48	0.71	0.465	0.313	0.247	
mg/L	Lead	< 0.001	< 0.001	0.0003	0.000187	0.000079	
mg/L	Lithium	0.002	0.009	0.0083	0.0072	0.0088	
mg/L	Magnesium	3.52	17	16.5	18.6	19.2	
mg/L	Manganese	0.027	0.021	0.0322	0.0238	0.0261	
mg/L	Mercury	< 0.02	<0.02	<0.000050	<0.000050	<0.000050	
mg/L	Molybdenum	0.0005	0.0021	0.00257	0.0022	0.00248	
mg/L	Nickel	0.002	0.002	0.00279	0.00242	0.00226	
mg/L	Phosphorus	0.8	< 0.15	<0.30	<0.30	<0.30	
mg/L	Potassium	2.9	1.1	<2.0	<2.0	<2.0	
mg/L	Selenium	< 0.001	0.003	0.0018	0.0028	0.0015	
mg/L	Silicon	5.8	11.9	5.11	5.04	5.2	
mg/L	Silver	< 0.00025	< 0.00025	<0.000030	<0.000010	<0.000010	
mg/L	Sodium	1.34	8.87	3.5	3.6	3.6	
mg/L	Strontium	0.045	0.22	0.22	0.179	0.218	
mg/L	Sulphur	5.06	24.6	23.6	23.7	28.4	
mg/L	Thallium	< 0.0001	< 0.0001	<0.00010	<0.00010	<0.00010	
mg/L	Tin	0.002	< 0.001	<0.00010	<0.00010	<0.00010	
mg/L	Titanium	0.009	0.011	<0.010	<0.010	<0.010	
mg/L	Uranium	< 0.0005	0.0015	0.00167	0.00143	0.0016	
mg/L	Vanadium	0.002	0.003	0.0028	0.0014	0.0013	
mg/L	Zinc	0.013	0.005	<0.0060	0.0047	0.0017	

Alexco Resource Corp.

Brewery Creek Mine

Monitoring Pursuant to Water License QZ96-007

Surface Stations

	Station	BC-39
Units	Date	30-Dec-05
m/sec	Water Level or Flow	No Flow
pH units	pH (field)	
pH units	pH (lab)	
uS/cm	Conductivity (field)	
uS/cm	Conductivity (lab)	
°C	Temperature (field)	
mg CaCO ₃ /L	Hardness	
mg CaCO ₃ /L	Alkalinity	
mg/L	Total Dissolved Solids	
mg/L	Total Suspended Solids	
mg/L	Chloride	
mg/L	Sulfate	
mg /L	Ammonia	
mg /L	Nitrate	
mg/L	Total Cyanide	
mg/L	WAD Cyanide	
	Total Metals	
mg/L	Aluminum	
mg/L	Antimony	
mg/L	Arsenic	
mg/L	Barium	
mg/L	Beryllium	
mg/L	Bismuth	
mg/L	Boron	
mg/L	Cadmium	
mg/L	Calcium	
mg/L	Chromium	
mg/L	Cobalt	
mg/L	Copper	
mg/L	Iron	
mg/L	Lead	
mg/L	Lithium	
mg/L	Magnesium	
mg/L	Manganese	
mg/L	Mercury	
mg/L	Molybdenum	
mg/L	Nickel	
mg/L	Phosphorus	
mg/L	Potassium	
mg/L	Selenium	
mg/L	Silicon	
mg/L	Silver	
mg/L	Sodium	
mg/L	Strontium	
mg/L	Sulphur	
mg/L	Thallium	
mg/L	Tin	
mg/L	Titanium	
mg/L	Uranium	
mg/L	Vanadium	
mg/L	Zinc	

Alexco Resource Corp.
Brewery Creek Mine
Monitoring Pursuant to Water License QZ96-007
Surface Stations

Appendix B5.2

	Station	BC-31	BC-31	BC-31	BC-31
Units	Date	30-Apr-05	24-Jun-05	29-Aug-05	29-Dec-05
m/sec	Water Level or Flow				
pH units	pH (field)				
pH units	pH (lab)	7.85	8.23	8.24	8.10
uS/cm	Conductivity (field)				
uS/cm	Conductivity (lab)	207	457	410	669
°C	Temperature (field)				
mg CaCO ₃ /L	Hardness	105	247	238	351
mg CaCO ₃ /L	Alkalinity		152	141	204
mg/L	Total Dissolved Solids	167	351	246	469
mg/L	Total Suspended Solids	4.2	<3.0	9.8	3
mg/L	Chloride	<0.50	0.57	<0.50	0.88
mg/L	Sulfate	46.9	104	90.1	184
mg /L	Ammonia	<0.020	0.053	0.057	<0.020
mg /L	Nitrate	0.079	0.168	0.135	0.272
mg/L	Total Cyanide	-	-	-	-
mg/L	WAD Cyanide	-	-	-	-
	Total Metals	TM	TM	TM	TM
mg/L	Aluminium	0.11	0.052	0.107	0.0598
mg/L	Antimony	< 0.001	0.002	0.00117	0.00077
mg/L	Arsenic	< 0.001	0.001	0.001	0.00072
mg/L	Barium	0.031	0.06	0.0649	0.0691
mg/L	Beryllium	< 0.001	< 0.001	<0.00050	<0.00050
mg/L	Bismuth	< 0.001	< 0.001	<0.00050	<0.00050
mg/L	Boron	< 0.05	< 0.05	<0.010	<0.010
mg/L	Cadmium	< 0.0002	< 0.0002	0.000074	0.000099
mg/L	Calcium	22.2	58.4	57.1	79
mg/L	Chromium	< 0.001	< 0.001	<0.00050	<0.00050
mg/L	Cobalt	< 0.001	< 0.001	0.00031	<0.00010
mg/L	Copper	0.002	0.002	0.00225	0.00124
mg/L	Iron	0.27	0.19	0.277	0.111
mg/L	Lead	< 0.001	< 0.001	0.000213	<0.00020
mg/L	Lithium	0.002	0.006	<0.0050	0.0065
mg/L	Magnesium	9.43	25.8	23.2	37.4
mg/L	Manganese	0.018	0.012	0.0265	0.0206
mg/L	Mercury	< 0.02	<0.02	<0.000050	<0.000050
mg/L	Molybdenum	< 0.0005	0.0016	0.00146	0.00189
mg/L	Nickel	0.003	0.003	0.00261	0.00266
mg/L	Phosphorus	< 0.15	< 0.15	<0.30	<0.30
mg/L	Potassium	1.1	0.9	<2.0	<2.0
mg/L	Selenium	< 0.001	< 0.001	0.0016	0.0058
mg/L	Silicon	4	8.2	3.59	3.72
mg/L	Silver	< 0.00025	< 0.00025	<0.000010	<0.000030
mg/L	Sodium	0.76	2.26	<2.0	2.1
mg/L	Strontium	0.098	0.28	0.263	0.423
mg/L	Sulphur	13.6	31.2	29.7	55.1
mg/L	Thallium	< 0.0001	< 0.0001	<0.00010	<0.00010
mg/L	Tin	< 0.001	< 0.001	<0.00010	<0.00010
mg/L	Titanium	0.002	0.001	<0.010	<0.010
mg/L	Uranium	0.0006	0.0019	0.00188	0.00432
mg/L	Vanadium	< 0.001	0.001	0.0014	<0.0010
mg/L	Zinc	0.013	< 0.005	<0.0070	<0.0090

Alexco Resource Corp.

Brewery Creek Mine

Monitoring Pursuant to Water License QZ96-007

Surface Stations (Voluntary)

		File Reference
		Station
		BC-32
Units	Date	30-Aug-05
m/sec	Water Level or Flow	
pH units	pH (field)	
pH units	pH (lab)	8.21
uS/cm	Conductivity (field)	
uS/cm	Conductivity (lab)	485
°C	Temperature (field)	
mg CaCO ₃ /L	Hardness	283
mg CaCO ₃ /L	Alkalinity	179
mg/L	Total Dissolved Solids	301
mg/L	Total Suspended Solids	3.8
mg/L	Chloride	<0.50
mg/L	Sulfate	105
mg /L	Ammonia	0.046
mg /L	Nitrate	0.118
mg/L	Total Cyanide	-
mg/L	WAD Cyanide	-
Total Metals		TM
mg/L	Aluminum	0.0417
mg/L	Antimony	0.00953
mg/L	Arsenic	0.00387
mg/L	Barium	0.0775
mg/L	Beryllium	<0.00050
mg/L	Bismuth	<0.00050
mg/L	Boron	<0.010
mg/L	Cadmium	0.000112
mg/L	Calcium	69.3
mg/L	Chromium	<0.00050
mg/L	Cobalt	0.00042
mg/L	Copper	0.00102
mg/L	Iron	0.245
mg/L	Lead	0.000122
mg/L	Lithium	0.0068
mg/L	Magnesium	26.8
mg/L	Manganese	0.0959
mg/L	Mercury	<0.000050
mg/L	Molybdenum	0.00214
mg/L	Nickel	0.00358
mg/L	Phosphorus	<0.30
mg/L	Potassium	<2.0
mg/L	Selenium	0.0023
mg/L	Silicon	3.35
mg/L	Silver	<0.000010
mg/L	Sodium	<2.0
mg/L	Strontium	0.344
mg/L	Sulphur	34.2
mg/L	Thallium	<0.00010
mg/L	Tin	<0.00010
mg/L	Titanium	<0.010
mg/L	Uranium	0.0018
mg/L	Vanadium	<0.0010
mg/L	Zinc	0.0166

Alexco Resource Corp.

Brewery Creek Mine

Monitoring Pursuant to Water License QZ96-007

Surface Stations (Voluntary)

	Station	BC-33
Units	Date	31-Aug-05
m/sec	Water Level or Flow	
pH units	pH (field)	
pH units	pH (lab)	8.22
uS/cm	Conductivity (field)	
uS/cm	Conductivity (lab)	415
°C	Temperature (field)	
mg CaCO ₃ /L	Hardness	242
mg CaCO ₃ /L	Alkalinity	135
mg/L	Total Dissolved Solids	270
mg/L	Total Suspended Solids	9.3
mg/L	Chloride	<0.50
mg/L	Sulfate	98.7
mg /L	Ammonia	0.05
mg /L	Nitrate	0.111
mg/L	Total Cyanide	-
mg/L	WAD Cyanide	-
Total Metals		TM
mg/L	Aluminum	0.0775
mg/L	Antimony	0.00028
mg/L	Arsenic	0.00028
mg/L	Barium	0.0514
mg/L	Beryllium	<0.00050
mg/L	Bismuth	<0.00050
mg/L	Boron	<0.010
mg/L	Cadmium	0.000099
mg/L	Calcium	61.9
mg/L	Chromium	<0.00050
mg/L	Cobalt	0.00011
mg/L	Copper	0.00194
mg/L	Iron	0.172
mg/L	Lead	0.000105
mg/L	Lithium	<0.0050
mg/L	Magnesium	21.2
mg/L	Manganese	0.0153
mg/L	Mercury	<0.000050
mg/L	Molybdenum	0.00147
mg/L	Nickel	0.0028
mg/L	Phosphorus	<0.30
mg/L	Potassium	<2.0
mg/L	Selenium	0.0028
mg/L	Silicon	3.33
mg/L	Silver	<0.000010
mg/L	Sodium	<2.0
mg/L	Strontium	0.235
mg/L	Sulphur	32.1
mg/L	Thallium	<0.00010
mg/L	Tin	<0.00010
mg/L	Titanium	<0.010
mg/L	Uranium	0.00123
mg/L	Vanadium	0.0013
mg/L	Zinc	<0.010

Alexco Resource Corp.

Brewery Creek Mine

Monitoring Pursuant to Water License QZ96-007

Surface Stations

File Reference					
Units	Station	BC-34	BC-34	BC-34	BC-34
	Date	30-Apr-05	23-Jun-05	31-Aug-05	29-Dec-05
m/sec	Water Level or Flow				
pH units	pH (field)				
pH units	pH (lab)	7.79	8.21	8.21	8.03
uS/cm	Conductivity (field)				
uS/cm	Conductivity (lab)	204	395	410	548
°C	Temperature (field)				
mg CaCO ₃ /L	Hardness	97.1	206	237	291
mg CaCO ₃ /L	Alkalinity		131	135	157
mg/L	Total Dissolved Solids	164	244	257	377
mg/L	Total Suspended Solids	3.2	5	5.8	<3.0
mg/L	Chloride	0.57	0.63	<0.50	0.73
mg/L	Sulfate	49.7	87.8	95.8	151
mg/L	Ammonia	0.05	0.062	0.068	<0.020
mg/L	Nitrate	0.0925	0.133	0.0907	0.273
mg/L	Total Cyanide	-	-	-	-
mg/L	WAD Cyanide	-	-	-	-
Total Metals		TM	TM	TM	TM
mg/L	Aluminum	0.18	0.13	0.0622	0.0116
mg/L	Antimony	< 0.001	0.001	0.00031	0.00021
mg/L	Arsenic	< 0.001	0.003	0.00031	0.00022
mg/L	Barium	0.052	0.055	0.0526	0.0481
mg/L	Beryllium	< 0.001	< 0.001	<0.00050	<0.00050
mg/L	Bismuth	< 0.001	< 0.001	<0.00050	<0.00050
mg/L	Boron	< 0.05	< 0.05	<0.010	<0.010
mg/L	Cadmium	< 0.0002	< 0.0002	0.000085	0.000098
mg/L	Calcium	22.3	51.6	60.8	68.1
mg/L	Chromium	< 0.001	< 0.001	<0.00050	<0.00050
mg/L	Cobalt	< 0.001	0.001	<0.00010	<0.00010
mg/L	Copper	0.003	0.002	0.00183	0.00103
mg/L	Iron	0.28	0.28	0.13	0.041
mg/L	Lead	< 0.001	< 0.001	0.000062	<0.000050
mg/L	Lithium	0.001	0.002	<0.0050	<0.0050
mg/L	Magnesium	8.29	19.7	20.6	29.4
mg/L	Manganese	0.043	0.018	0.0159	0.0124
mg/L	Mercury	< 0.02	<0.02	<0.000050	<0.000050
mg/L	Molybdenum	0.0006	0.0014	0.00158	0.00133
mg/L	Nickel	0.004	0.003	0.00292	0.00184
mg/L	Phosphorus	0.9	< 0.15	<0.30	<0.30
mg/L	Potassium	3.1	0.7	<2.0	<2.0
mg/L	Selenium	< 0.001	< 0.001	0.0025	0.0032
mg/L	Silicon	5.5	7.6	3.31	3.18
mg/L	Silver	< 0.00025	< 0.00025	<0.000010	<0.000010
mg/L	Sodium	0.83	1.56	<2.0	<2.0
mg/L	Strontium	0.083	0.21	0.231	0.284
mg/L	Sulphur	14.3	26.7	31.3	45.7
mg/L	Thallium	< 0.0001	< 0.0001	<0.00010	<0.00010
mg/L	Tin	< 0.001	< 0.001	<0.00010	<0.00010
mg/L	Titanium	0.004	0.006	<0.010	<0.010
mg/L	Uranium	< 0.0005	0.0011	0.00123	0.002
mg/L	Vanadium	0.001	0.002	0.0012	<0.0010
mg/L	Zinc	0.02	0.009	<0.0080	0.0094

Alexco Resource Corp.

Brewery Creek Mine

Monitoring Pursuant to Water License QZ96-007

Surface Stations (Voluntary)

	Station	BC-35
Units	Date	31-Aug-05
m/sec	Water Level or Flow	
pH units	pH (field)	
pH units	pH (lab)	8.25
uS/cm	Conductivity (field)	
uS/cm	Conductivity (lab)	474
°C	Temperature (field)	
mg CaCO ₃ /L	Hardness	277
mg CaCO ₃ /L	Alkalinity	155
mg/L	Total Dissolved Solids	301
mg/L	Total Suspended Solids	3.3
mg/L	Chloride	<0.50
mg/L	Sulfate	115
mg /L	Ammonia	0.035
mg /L	Nitrate	0.111
mg/L	Total Cyanide	-
mg/L	WAD Cyanide	-
Total Metals		TM
mg/L	Aluminum	0.0418
mg/L	Antimony	0.0009
mg/L	Arsenic	0.00109
mg/L	Barium	0.0754
mg/L	Beryllium	<0.00050
mg/L	Bismuth	<0.00050
mg/L	Boron	<0.010
mg/L	Cadmium	0.000091
mg/L	Calcium	66.1
mg/L	Chromium	<0.00050
mg/L	Cobalt	0.00013
mg/L	Copper	0.00151
mg/L	Iron	0.146
mg/L	Lead	0.000057
mg/L	Lithium	0.0051
mg/L	Magnesium	27.2
mg/L	Manganese	0.0264
mg/L	Mercury	<0.000050
mg/L	Molybdenum	0.00162
mg/L	Nickel	0.00483
mg/L	Phosphorus	<0.30
mg/L	Potassium	<2.0
mg/L	Selenium	0.0013
mg/L	Silicon	3.22
mg/L	Silver	<0.000010
mg/L	Sodium	<2.0
mg/L	Strontium	0.281
mg/L	Sulphur	37.6
mg/L	Thallium	<0.00010
mg/L	Tin	<0.00010
mg/L	Titanium	<0.010
mg/L	Uranium	0.00212
mg/L	Vanadium	<0.0010
mg/L	Zinc	0.0212

Alexco Resource Corp.

Brewery Creek Mine

Monitoring Pursuant to Water License QZ96-007

Surface Stations (Voluntary)

	Station	BC-36
Units	Date	31-Aug-05
m/sec	Water Level or Flow	
pH units	pH (field)	
pH units	pH (lab)	8.26
uS/cm	Conductivity (field)	
uS/cm	Conductivity (lab)	412
°C	Temperature (field)	
mg CaCO ₃ /L	Hardness	241
mg CaCO ₃ /L	Alkalinity	153
mg/L	Total Dissolved Solids	260
mg/L	Total Suspended Solids	11.3
mg/L	Chloride	<0.50
mg/L	Sulfate	81.8
mg /L	Ammonia	0.036
mg /L	Nitrate	0.144
mg/L	Total Cyanide	-
mg/L	WAD Cyanide	-
Total Metals		TM
mg/L	Aluminum	0.106
mg/L	Antimony	0.00026
mg/L	Arsenic	0.00033
mg/L	Barium	0.064
mg/L	Beryllium	<0.00050
mg/L	Bismuth	<0.00050
mg/L	Boron	<0.010
mg/L	Cadmium	0.000083
mg/L	Calcium	59.9
mg/L	Chromium	<0.00050
mg/L	Cobalt	0.00013
mg/L	Copper	0.00233
mg/L	Iron	0.233
mg/L	Lead	0.000138
mg/L	Lithium	<0.0050
mg/L	Magnesium	22.2
mg/L	Manganese	0.021
mg/L	Mercury	<0.000050
mg/L	Molybdenum	0.00147
mg/L	Nickel	0.00239
mg/L	Phosphorus	<0.30
mg/L	Potassium	<2.0
mg/L	Selenium	0.0022
mg/L	Silicon	3.6
mg/L	Silver	<0.000010
mg/L	Sodium	<2.0
mg/L	Strontium	0.288
mg/L	Sulphur	26.6
mg/L	Thallium	<0.00010
mg/L	Tin	<0.00010
mg/L	Titanium	<0.010
mg/L	Uranium	0.00217
mg/L	Vanadium	0.0013
mg/L	Zinc	<0.0080

Alexco Resource Corp.

Brewery Creek Mine

Monitoring Pursuant to Water License QZ96-007

Surface Stations (Voluntary)

	Station	BC-37
Units	Date	31-Aug-05
m/sec	Water Level or Flow	
pH units	pH (field)	
pH units	pH (lab)	7.65
uS/cm	Conductivity (field)	
uS/cm	Conductivity (lab)	331
°C	Temperature (field)	
mg CaCO ₃ /L	Hardness	188
mg CaCO ₃ /L	Alkalinity	106
mg/L	Total Dissolved Solids	222
mg/L	Total Suspended Solids	173
mg/L	Chloride	0.51
mg/L	Sulfate	73.6
mg /L	Ammonia	0.071
mg /L	Nitrate	0.59
mg/L	Total Cyanide	-
mg/L	WAD Cyanide	-
Total Metals		TM
mg/L	Aluminum	2.72
mg/L	Antimony	0.00299
mg/L	Arsenic	0.00918
mg/L	Barium	0.202
mg/L	Beryllium	<0.00050
mg/L	Bismuth	<0.00050
mg/L	Boron	<0.010
mg/L	Cadmium	0.000336
mg/L	Calcium	46.6
mg/L	Chromium	0.00525
mg/L	Cobalt	0.00404
mg/L	Copper	0.00926
mg/L	Iron	4.52
mg/L	Lead	0.00263
mg/L	Lithium	0.01
mg/L	Magnesium	17.4
mg/L	Manganese	0.205
mg/L	Mercury	<0.000050
mg/L	Molybdenum	0.00256
mg/L	Nickel	0.0112
mg/L	Phosphorus	<0.30
mg/L	Potassium	<2.0
mg/L	Selenium	0.002
mg/L	Silicon	9.05
mg/L	Silver	<0.000070
mg/L	Sodium	3.7
mg/L	Strontium	0.24
mg/L	Sulphur	23.7
mg/L	Thallium	<0.00010
mg/L	Tin	0.0001
mg/L	Titanium	0.09
mg/L	Uranium	0.00201
mg/L	Vanadium	0.0134
mg/L	Zinc	0.0325

Alexco Resource Corp.

Brewery Creek Mine

Monitoring Pursuant to Water License QZ96-007

Surface Stations (Voluntary)

	Station	BC-38
Units	Date	31-Aug-05
m/sec	Water Level or Flow	
pH units	pH (field)	
pH units	pH (lab)	8.02
uS/cm	Conductivity (field)	
uS/cm	Conductivity (lab)	250
°C	Temperature (field)	
mg CaCO ₃ /L	Hardness	131
mg CaCO ₃ /L	Alkalinity	93.3
mg/L	Total Dissolved Solids	141
mg/L	Total Suspended Solids	<3.0
mg/L	Chloride	<0.50
mg/L	Sulfate	49.5
mg /L	Ammonia	0.076
mg /L	Nitrate	0.066
mg/L	Total Cyanide	<0.0050
mg/L	WAD Cyanide	<0.0050
Total Metals		TM
mg/L	Aluminum	0.0251
mg/L	Antimony	0.00017
mg/L	Arsenic	0.00054
mg/L	Barium	0.0551
mg/L	Beryllium	<0.00050
mg/L	Bismuth	<0.00050
mg/L	Boron	<0.010
mg/L	Cadmium	<0.000050
mg/L	Calcium	36
mg/L	Chromium	<0.00050
mg/L	Cobalt	<0.00010
mg/L	Copper	0.00075
mg/L	Iron	0.065
mg/L	Lead	0.000054
mg/L	Lithium	<0.0050
mg/L	Magnesium	10.1
mg/L	Manganese	0.00876
mg/L	Mercury	<0.000050
mg/L	Molybdenum	0.000465
mg/L	Nickel	0.00077
mg/L	Phosphorus	<0.30
mg/L	Potassium	<2.0
mg/L	Selenium	<0.0010
mg/L	Silicon	2.91
mg/L	Silver	<0.000010
mg/L	Sodium	<2.0
mg/L	Strontium	0.217
mg/L	Sulphur	15.9
mg/L	Tballium	<0.00010
mg/L	Tin	<0.00010
mg/L	Titanium	<0.010
mg/L	Uranium	0.00057
mg/L	Vanadium	<0.0010
mg/L	Zinc	<0.0030

Alexco Resource Corp.
Brewery Creek Mine
Monitoring Pursuant to Water License QZ96-007
Surface Stations (Voluntary)

	Station	BC-53
Units	Date	31-Aug-05
m/sec	Water Level or Flow	
pH units	pH (field)	
pH units	pH (lab)	7.71
uS/cm	Conductivity (field)	
uS/cm	Conductivity (lab)	346
°C	Temperature (field)	
mg CaCO ₃ /L	Hardness	188
mg CaCO ₃ /L	Alkalinity	114
mg/L	Total Dissolved Solids	216
mg/L	Total Suspended Solids	112
mg/L	Chloride	<0.50
mg/L	Sulfate	78.1
mg /L	Ammonia	0.053
mg /L	Nitrate	0.626
mg/L	Total Cyanide	<0.0050
mg/L	WAD Cyanide	<0.0050
Total Metals		TM
mg/L	Aluminum	1.44
mg/L	Antimony	0.00291
mg/L	Arsenic	0.00774
mg/L	Barium	0.14
mg/L	Beryllium	<0.00050
mg/L	Bismuth	<0.00050
mg/L	Boron	<0.010
mg/L	Cadmium	0.0002
mg/L	Calcium	46.3
mg/L	Chromium	0.00288
mg/L	Cobalt	0.00289
mg/L	Copper	0.00622
mg/L	Iron	2.5
mg/L	Lead	0.00137
mg/L	Lithium	0.0103
mg/L	Magnesium	17.7
mg/L	Manganese	0.137
mg/L	Mercury	<0.000050
mg/L	Molybdenum	0.00253
mg/L	Nickel	0.00683
mg/L	Phosphorus	<0.30
mg/L	Potassium	<2.0
mg/L	Selenium	0.0019
mg/L	Silicon	7.15
mg/L	Silver	<0.000040
mg/L	Sodium	3.6
mg/L	Strontium	0.228
mg/L	Sulphur	24.5
mg/L	Thallium	<0.00010
mg/L	Tin	<0.00010
mg/L	Titanium	0.05
mg/L	Uranium	0.00179
mg/L	Vanadium	0.0075
mg/L	Zinc	0.0178

Alexco Resource Corp.

Brewery Creek Mine

Monitoring Pursuant to Water License QZ96-007

Surface Stations

	Station	BTC	BTC
Units	Date	31-Aug-05	27-Sep-05
m/sec	Water Level or Flow		
pH units	pH (field)		
pH units	pH (lab)	8.15	
uS/cm	Conductivity (field)		
uS/cm	Conductivity (lab)	1800	
°C	Temperature (field)		
mg CaCO ₃ /L	Hardness	494	548
mg CaCO ₃ /L	Alkalinity	311	
mg/L	Total Dissolved Solids	1350	
mg/L	Total Suspended Solids	19.8	
mg/L	Chloride	2.22	
mg/L	Sulfate	23.2	
mg /L	Ammonia	0.086	0.072
mg /L	Nitrate	10.7	
mg/L	Total Cyanide	0.288	0.301
mg/L	WAD Cyanide	0.0517	0.0941
	Total Metals	TM	
mg/L	Aluminum	1.02	0.0845
mg/L	Antimony	0.503	0.625
mg/L	Arsenic	0.104	0.154
mg/L	Barium	0.515	0.336
mg/L	Beryllium	<0.0025	<0.0025
mg/L	Bismuth	<0.0025	<0.0025
mg/L	Boron	0.361	0.123
mg/L	Cadmium	0.00095	0.00033
mg/L	Calcium	152	166
mg/L	Chromium	0.0176	<0.0025
mg/L	Cobalt	0.448	0.449
mg/L	Copper	0.223	0.00231
mg/L	Iron	0.451	0.207
mg/L	Lead	0.0185	<0.00025
mg/L	Lithium	<0.025	<0.025
mg/L	Magnesium	27.9	32.7
mg/L	Manganese	0.689	0.567
mg/L	Mercury	0.000138	0.000087
mg/L	Molybdenum	0.034	0.0286
mg/L	Nickel	0.0178	0.0116
mg/L	Phosphorus	<0.30	<0.30
mg/L	Potassium	9.2	8.7
mg/L	Selenium	0.0581	0.034
mg/L	Silicon	4.02	3.77
mg/L	Silver	0.000172	<0.000050
mg/L	Sodium	190	228
mg/L	Strontium	0.765	0.714
mg/L	Sulphur	74.7	91.4
mg/L	Thallium	<0.00050	<0.00050
mg/L	Tin	0.00058	<0.00050
mg/L	Titanium	<0.010	<0.010
mg/L	Uranium	0.00765	0.01
mg/L	Vanadium	<0.0050	<0.0050
mg/L	Zinc	0.897	0.0075

Alexco Resource Corp.

Brewery Creek Mine

Monitoring Pursuant to Water License QZ96-007

GroundWater Stations

	Station	BC-19	BC-19	BC-19	BC-19
Units	Date	30-Apr-05	23-Jun-05	31-Aug-05	29-Dec-05
m/sec	Water Level or Flow				
pH units	pH (field)				
pH units	pH (lab)	7.93	7.58	7.51	7.30
uS/cm	Conductivity (field)				
uS/cm	Conductivity (lab)	670	679	654	661
°C	Temperature (field)				
mg CaCO ₃ /L	Hardness	334	361	367	338
mg CaCO ₃ /L	Alkalinity		231	234	233
mg/L	Total Dissolved Solids	438	424	437	442
mg/L	Total Suspended Solids	6.2	11	54.3	14.5
mg/L	Chloride	<0.50	0.88	<0.50	0.68
mg/L	Sulfate	155	150	143	150
mg /L	Ammonia	<0.020	0.044	0.045	<0.020
mg /L	Nitrate	0.201	0.183	0.197	0.14
mg/L	Total Cyanide	-	<0.0050	<0.0050	<0.0050
mg/L	WAD Cyanide	-	<0.0050	<0.0050	<0.0050
Dissolved Metals		DM	DM	DM	DM
mg/L	Aluminum	0.063	< 0.005	0.0041	0.002
mg/L	Antimony	< 0.001	< 0.001	0.00058	0.0005
mg/L	Arsenic	0.002	< 0.001	0.00068	0.00063
mg/L	Barium	0.01	0.003	0.0168	0.00294
mg/L	Beryllium	< 0.001	< 0.001	<0.00050	<0.00050
mg/L	Bismuth	< 0.001	< 0.001	<0.00050	<0.00050
mg/L	Boron	< 0.05	< 0.05	0.021	0.017
mg/L	Cadmium	< 0.0002	< 0.0002	0.000472	0.000209
mg/L	Calcium	70.7	77.8	82.5	70.3
mg/L	Chromium	0.001	< 0.001	0.0018	0.00057
mg/L	Cobalt	< 0.001	< 0.001	0.00015	<0.00010
mg/L	Copper	0.003	0.001	0.00676	0.00278
mg/L	Iron	0.34	< 0.05	0.093	<0.030
mg/L	Lead	0.002	< 0.001	0.000113	0.000068
mg/L	Lithium	0.027	0.03	0.033	0.0291
mg/L	Magnesium	35.5	38.2	39.1	39.3
mg/L	Manganese	0.012	0.007	0.025	0.00634
mg/L	Mercury	< 0.02	< 0.02	<0.000050	<0.000050
mg/L	Molybdenum	< 0.0005	< 0.0005	0.000214	<0.000050
mg/L	Nickel	0.002	0.002	0.00294	0.00145
mg/L	Phosphorus	0.2	0.2	<0.30	<0.30
mg/L	Potassium	2.1	2.2	<2.0	2.4
mg/L	Selenium	0.003	< 0.001	0.0031	0.0021
mg/L	Silicon	18.4	18	7.37	7.73
mg/L	Silver	< 0.00025	< 0.00025	<0.000010	<0.000010
mg/L	Sodium	9.76	9.91	9.8	10.8
mg/L	Strontium	0.26	0.28	0.281	0.278
mg/L	Sulphur	47.5	52.3	48.3	47.4
mg/L	Thallium	< 0.0001	< 0.0001	<0.00010	<0.00010
mg/L	Tin	< 0.001	< 0.001	0.00018	<0.00010
mg/L	Titanium	0.003	< 0.001	<0.010	<0.010
mg/L	Uranium	< 0.0005	< 0.0005	0.000318	0.000209
mg/L	Vanadium	< 0.001	< 0.001	<0.0010	<0.0010
mg/L	Zinc	0.03	0.019	0.0694	0.015

Alexco Resource Corp.

Brewery Creek Mine

Monitoring Pursuant to Water License QZ96-007

GroundWater Stations

	File Reference				
	Station	BC-21	BC-21	BC-21	BC-21
Units	Date	30-Apr-05	23-Jun-05	30-Aug-05	29-Dec-05
m/sec	Water Level or Flow				
pH units	pH (field)				
pH units	pH (lab)	7.77	7.50	7.47	7.01
uS/cm	Conductivity (field)				
uS/cm	Conductivity (lab)	261	312	295	387
°C	Temperature (field)				
mg CaCO ₃ /L	Hardness	106	141	150	161
mg CaCO ₃ /L	Alkalinity		116	135	14
mg/L	Total Dissolved Solids	143	165	159	271
mg/L	Total Suspended Solids	14.7	65	57.8	60.5
mg/L	Chloride	7.42	9.84	5.23	86.8
mg/L	Sulfate	25	28.2	22.8	23
mg/L	Ammonia	<0.020	0.113	0.046	<0.020
mg/L	Nitrate	0.587	0.414	0.33	0.552
mg/L	Total Cyanide	-	<0.0050	<0.0050	<0.0050
mg/L	WAD Cyanide	-	<0.0050	<0.0050	<0.0050
	Dissolved Metals	DM	DM	DM	DM
mg/L	Aluminum	0.13	< 0.005	0.0126	0.0152
mg/L	Antimony	0.002	< 0.001	0.00048	0.00106
mg/L	Arsenic	0.008	0.003	0.00185	0.00168
mg/L	Barium	0.064	0.039	0.042	0.0569
mg/L	Beryllium	< 0.001	< 0.001	<0.00050	<0.00050
mg/L	Bismuth	< 0.001	< 0.001	<0.00050	<0.00050
mg/L	Boron	< 0.05	< 0.05	0.02	0.011
mg/L	Cadmium	< 0.0002	0.0002	0.000304	0.00079
mg/L	Calcium	13.6	24.5	24.9	34.2
mg/L	Chromium	0.002	< 0.001	0.00056	<0.00050
mg/L	Cobalt	< 0.001	< 0.001	0.00042	0.00162
mg/L	Copper	0.003	0.005	0.0042	0.0121
mg/L	Iron	0.49	< 0.05	0.051	<0.030
mg/L	Lead	0.002	< 0.001	<0.000050	0.000141
mg/L	Lithium	0.015	0.018	0.0193	0.0217
mg/L	Magnesium	12.7	20.6	21.4	18.5
mg/L	Manganese	0.018	0.024	0.075	0.18
mg/L	Mercury	< 0.02	< 0.02	<0.000050	<0.000050
mg/L	Molybdenum	< 0.0005	< 0.0005	0.000148	<0.000050
mg/L	Nickel	0.005	0.005	0.00692	0.0286
mg/L	Phosphorus	< 0.15	< 0.15	<0.30	<0.30
mg/L	Potassium	2	2.6	<2.0	3
mg/L	Selenium	0.016	0.012	0.0144	<0.0010
mg/L	Silicon	12.3	12.3	5.09	9.31
mg/L	Silver	< 0.00025	< 0.00025	0.000031	<0.000010
mg/L	Sodium	8.63	8.67	8.7	6.6
mg/L	Strontium	0.075	0.13	0.125	0.169
mg/L	Sulphur	6.66	10.4	8.48	10.8
mg/L	Thallium	< 0.0001	< 0.0001	<0.00010	<0.00010
mg/L	Tin	< 0.001	< 0.001	<0.00010	0.0001
mg/L	Titanium	0.004	< 0.001	<0.010	<0.010
mg/L	Uranium	< 0.0005	< 0.0005	0.000057	<0.000010
mg/L	Vanadium	< 0.001	< 0.001	<0.0010	<0.0010
mg/L	Zinc	0.018	0.02	0.0451	0.028

Brewery Creek Mine
Monitoring Pursuant to Water License QZ96-007
GroundWater Stations

	File Reference				
	Station	BC-22	BC-22	BC-22	BC-22
Units	Date	30-Apr-05	23-Jun-05	29-Aug-05	29-Dec-05
m/sec	Water Level or Flow				
pH units	pH (field)				
pH units	pH (lab)	6.79	6.37	8.41	6.29
uS/cm	Conductivity (field)				
uS/cm	Conductivity (lab)	1560	1540	2070	1520
°C	Temperature (field)				
mg CaCO ₃ /L	Hardness	821	907	922	836
mg CaCO ₃ /L	Alkalinity		88	353	92.9
mg/L	Total Dissolved Solids	1320	1310	1530	1350
mg/L	Total Suspended Solids	10.2	6.4	378	7.3
mg/L	Chloride	1.05	1.27	<5.0	1.4
mg/L	Sulfate	865	812	850	831
mg /L	Ammonia	0.094	0.18	0.13	0.225
mg /L	Nitrate	2.99	3.12	2.92	2.83
mg/L	Total Cyanide	<0.010	<0.0050	<0.0050	<0.0050
mg/L	WAD Cyanide	<0.010	<0.0050	<0.0050	<0.0050
	Dissolved Metals	DM	DM	DM	DM
mg/L	Aluminum	0.6	0.54	0.61	0.495
mg/L	Antimony	< 0.001	< 0.001	<0.00050	<0.00050
mg/L	Arsenic	0.003	0.005	<0.00050	<0.00050
mg/L	Barium	0.017	0.012	0.00928	0.0155
mg/L	Beryllium	< 0.001	< 0.001	<0.0025	<0.0025
mg/L	Bismuth	< 0.001	< 0.001	<0.0025	<0.0025
mg/L	Boron	< 0.05	< 0.05	<0.050	<0.050
mg/L	Cadmium	0.013	0.015	0.0166	0.0163
mg/L	Calcium	204	230	243	211
mg/L	Chromium	0.002	< 0.001	<0.0025	<0.0025
mg/L	Cobalt	0.01	0.012	0.0121	0.0115
mg/L	Copper	0.005	0.005	0.00304	0.0184
mg/L	Iron	0.53	< 0.05	0.034	<0.030
mg/L	Lead	0.001	< 0.001	0.00031	0.00044
mg/L	Lithium	0.086	0.087	0.095	0.088
mg/L	Magnesium	71.6	77	76.5	75
mg/L	Manganese	0.86	0.95	1.01	0.98
mg/L	Mercury	0.03	< 0.02	<0.000050	<0.000050
mg/L	Molybdenum	< 0.0005	< 0.0005	<0.00025	0.00027
mg/L	Nickel	0.15	0.17	0.188	0.176
mg/L	Phosphorus	< 0.15	< 0.15	<0.30	<0.30
mg/L	Potassium	4.4	4.9	4.8	5.4
mg/L	Selenium	0.09	0.11	0.102	0.104
mg/L	Silicon	31.8	33.1	14.6	14.2
mg/L	Silver	< 0.00025	< 0.00025	<0.000050	<0.000050
mg/L	Sodium	16.7	17.9	19.7	19.3
mg/L	Strontium	0.36	0.4	0.414	0.432
mg/L	Sulphur	260	295	288	269
mg/L	Thallium	< 0.0001	< 0.0001	<0.00050	<0.00050
mg/L	Tin	< 0.001	< 0.001	<0.00050	<0.00050
mg/L	Titanium	0.003	0.002	<0.010	<0.010
mg/L	Uranium	< 0.0005	< 0.0005	<0.000050	<0.000050
mg/L	Vanadium	< 0.001	< 0.001	<0.0050	<0.0050
mg/L	Zinc	0.34	0.4	0.394	0.435

Alexco Resource Corp.

Brewery Creek Mine

Monitoring Pursuant to Water License QZ96-007

GroundWater Stations

File Reference					
Units	Station	BC-27	BC-27	BC-27	BC-27
	Date	1-Apr-05	23-Jun-05	29-Aug-05	29-Dec-05
m/sec	Water Level or Flow	no sample			
pH units	pH (field)				
pH units	pH (lab)		7.80	8.04	7.39
uS/cm	Conductivity (field)				
uS/cm	Conductivity (lab)		568	562	581
°C	Temperature (field)				
mg CaCO ₃ /L	Hardness		315	330	310
mg CaCO ₃ /L	Alkalinity		162	161	158
mg/L	Total Dissolved Solids		376	356	394
mg/L	Total Suspended Solids		15.4	24.8	49.5
mg/L	Chloride		<0.50	<0.50	1.06
mg/L	Sulfate		152	151	166
mg /L	Ammonia		0.129	0.113	0.127
mg /L	Nitrate		0.0101	0.0055	0.0312
mg/L	Total Cyanide		<0.0050	<0.0050	<0.0050
mg/L	WAD Cyanide		<0.0050	<0.0050	<0.0050
Dissolved Metals			DM	DM	DM
mg/L	Aluminum		< 0.005	0.0018	0.0241
mg/L	Antimony		0.003	0.00108	0.00282
mg/L	Arsenic		0.13	0.119	0.164
mg/L	Barium		0.02	0.0245	0.0326
mg/L	Beryllium		< 0.001	<0.00050	<0.00050
mg/L	Bismuth		< 0.001	<0.00050	<0.00050
mg/L	Boron		< 0.05	<0.010	<0.010
mg/L	Cadmium		< 0.0002	0.000065	0.000615
mg/L	Calcium		87.7	80	71.1
mg/L	Chromium		< 0.001	<0.00050	0.00077
mg/L	Cobalt		< 0.001	0.00023	0.00029
mg/L	Copper		0.003	0.00043	0.0109
mg/L	Iron		1.36	0.342	1.58
mg/L	Lead		< 0.001	<0.000050	0.00229
mg/L	Lithium		0.01	0.0097	0.0087
mg/L	Magnesium		34	31.7	32.1
mg/L	Manganese		0.18	0.169	0.188
mg/L	Mercury		0.12	<0.000050	<0.000050
mg/L	Molybdenum		0.013	0.0128	0.012
mg/L	Nickel		0.003	0.00694	0.00725
mg/L	Phosphorus		0.4	<0.30	<0.30
mg/L	Potassium		1.6	<2.0	<2.0
mg/L	Selenium		< 0.001	<0.0010	<0.0010
mg/L	Silicon		9.5	3.34	3.47
mg/L	Silver		< 0.00025	<0.000010	<0.000010
mg/L	Sodium		2.01	<2.0	<2.0
mg/L	Strontium		0.66	0.575	0.58
mg/L	Sulphur		55.2	51.2	53.1
mg/L	Thallium		< 0.0001	<0.00010	<0.00010
mg/L	Tin		< 0.001	<0.00010	0.00036
mg/L	Titanium		< 0.001	<0.010	<0.010
mg/L	Uranium		0.0067	0.00548	0.0058
mg/L	Vanadium		< 0.001	<0.0010	<0.0010
mg/L	Zinc		0.027	0.0274	0.0705

Alexco Resource Corp.
Brewery Creek Mine
Monitoring Pursuant to Water License QZ96-007
GroundWater Stations

Appendix B6.1

		BC-65	BC-65	BC-65	BC-65
Units	Station Date	30-Apr-05	22-Jun-05	31-Aug-05	29-Dec-05
m/sec	Water Level or Flow				
pH units	pH (field)				
pH units	pH (lab)	8.15	7.52	8.05	7.07
uS/cm	Conductivity (field)				
uS/cm	Conductivity (lab)	349	337	333	314
°C	Temperature (field)				
mg CaCO ₃ /L	Hardness	151	152	177	162
mg CaCO ₃ /L	Alkalinity		130	140	133
mg/L	Total Dissolved Solids	214	210	195	197
mg/L	Total Suspended Solids	49.7	113	<3.0	25.5
mg/L	Chloride	<0.50	1.87	<0.50	0.87
mg/L	Sulfate	48	44	46.3	39.7
mg /L	Ammonia	0.03	0.332	0.046	<0.020
mg /L	Nitrate	0.0903	1.08	<0.0050	0.0266
mg/L	Total Cyanide	<0.010	<0.0050	<0.0050	<0.0050
mg/L	WAD Cyanide	<0.010	<0.0050	<0.0050	<0.0050
	Disolved Metals	DM	DM	DM	DM
mg/L	Aluminum	0.47	0.007	0.0064	0.001
mg/L	Antimony	0.01	0.004	0.00339	0.00308
mg/L	Arsenic	0.006	0.001	0.00138	0.00118
mg/L	Barium	0.076	0.016	0.0129	0.0119
mg/L	Beryllium	< 0.001	< 0.001	<0.00050	<0.00050
mg/L	Bismuth	< 0.001	< 0.001	<0.00050	<0.00050
mg/L	Boron	< 0.05	< 0.05	0.03	0.033
mg/L	Cadmium	0.0015	< 0.0002	0.000066	<0.000050
mg/L	Calcium	46.3	48.1	55.7	49.7
mg/L	Chromium	0.005	< 0.001	<0.00050	<0.00050
mg/L	Cobalt	0.005	< 0.001	<0.00010	<0.00010
mg/L	Copper	0.015	0.004	0.00222	0.00076
mg/L	Iron	1.07	< 0.05	<0.030	<0.030
mg/L	Lead	0.007	< 0.001	0.000517	<0.000050
mg/L	Lithium	0.031	0.036	0.0409	0.0354
mg/L	Magnesium	7.81	7.72	9.26	9.15
mg/L	Manganese	4.51	0.033	0.00205	0.00271
mg/L	Mercury	0.02	0.03	<0.000050	<0.000050
mg/L	Molybdenum	< 0.0005	0.0007	0.000587	0.000386
mg/L	Nickel	0.084	0.006	0.00051	<0.00050
mg/L	Phosphorus	2.2	2.7	0.52	0.55
mg/L	Potassium	2.1	3.2	<2.0	2.1
mg/L	Selenium	< 0.001	< 0.001	<0.0010	0.001
mg/L	Silicon	17.7	16.7	6.95	7.34
mg/L	Silver	< 0.00025	< 0.00025	<0.000010	<0.000010
mg/L	Sodium	8.7	9.71	8.9	9.2
mg/L	Strontium	0.24	0.25	0.25	0.247
mg/L	Sulphur	14	15.5	14.7	13.8
mg/L	Thallium	< 0.0001	< 0.0001	<0.00010	<0.00010
mg/L	Tin	0.001	< 0.001	<0.00010	<0.00010
mg/L	Titanium	0.011	0.001	<0.010	<0.010
mg/L	Uranium	< 0.0005	< 0.0005	0.000298	0.000211
mg/L	Vanadium	0.001	< 0.001	<0.0010	<0.0010
mg/L	Zinc	0.1	0.022	0.0071	0.0026

Alexco Resource Corp.

Brewery Creek Mine

Monitoring Pursuant to Water License QZ96-007

GroundWater Stations

Units	Water License Discharge Standards'	File Reference				
		Station	BC-66	BC-66	BC-66	BC-66
		Date	30-Apr-05	22-Jun-05	31-Aug-05	29-Dec-05
m/sec		Water Level or Flow				
pH units		pH (field)				
pH units	6.0 - 9.5	pH (lab)	8.08	7.65	7.85	7.64
uS/cm		Conductivity (field)				
uS/cm		Conductivity (lab)	1110	737	1000	949
°C		Temperature (field)				
mg CaCO ₃ /L		Hardness	455	279	490	431
mg CaCO ₃ /L		Alkalinity		101	186	209
mg/L		Total Dissolved Solids	777	534	659	624
mg/L	50	Total Suspended Solids	26.2	39.4	<3.0	130
mg/L		Chloride	13.9	9.07	12	13.7
mg/L		Sulfate	25.4	23	20.4	21.1
mg /L	5.0	Ammonia	0.023	0.104	0.049	0.025
mg /L		Nitrate	97.5	61	80.6	69.9
mg/L	2.0	Total Cyanide	0.013	0.0943	0.0467	0.0899
mg/L	0.25	WAD Cyanide	0.075	0.0638	0.032	0.0106
Dissolved Metals			DM	DM	DM	DM
mg/L	1.0	Aluminum	0.19	0.008	0.0031	0.0028
mg/L	1.0	Antimony	0.002	< 0.001	<0.00020	<0.00020
mg/L	0.5	Arsenic	0.003	0.001	0.00029	0.00028
mg/L		Barium	0.083	0.061	0.0674	0.0629
mg/L		Beryllium	< 0.001	< 0.001	<0.0010	<0.0010
mg/L	0.5	Bismuth	< 0.001	< 0.001	<0.0010	<0.0010
mg/L		Boron	< 0.05	< 0.05	<0.020	<0.020
mg/L	0.1	Cadmium	0.0005	< 0.0002	0.00012	<0.00010
mg/L		Calcium	87.5	61.4	98.9	85.1
mg/L	0.5	Chromium	0.002	< 0.001	<0.0010	<0.0010
mg/L		Cobalt	0.23	0.16	0.224	0.205
mg/L	0.2	Copper	0.005	0.006	0.00241	0.00114
mg/L	1.0	Iron	0.58	< 0.05	<0.030	<0.030
mg/L	0.2	Lead	0.003	< 0.001	<0.00010	<0.00010
mg/L		Lithium	0.021	0.013	0.024	0.02
mg/L		Magnesium	52.3	29.5	59	53
mg/L	2.0	Manganese	0.053	0.016	0.0013	0.00287
mg/L	0.005	Mercury	< 0.02	< 0.02	<0.000050	<0.000050
mg/L	0.5	Molybdenum	0.0006	< 0.0005	<0.00010	<0.00010
mg/L	0.5	Nickel	0.004	0.002	<0.0010	<0.0010
mg/L		Phosphorus	4.2	1.3	<0.30	<0.30
mg/L		Potassium	2.9	2.5	2.3	3.1
mg/L	0.05	Selenium	0.023	0.022	0.0229	0.0256
mg/L		Silicon	13.2	13.3	4.2	4.87
mg/L	0.1	Silver	< 0.00025	< 0.00025	<0.000020	<0.000020
mg/L		Sodium	23.5	32.6	15	17.4
mg/L		Strontium	0.45	0.3	0.489	0.452
mg/L		Sulphur	8.63	8.28	7.21	6.99
mg/L		Thallium	< 0.0001	< 0.0001	<0.00020	<0.00020
mg/L		Tin	< 0.001	< 0.001	<0.00020	<0.00020
mg/L		Titanium	0.004	< 0.001	<0.010	<0.010
mg/L		Uranium	0.0006	< 0.0005	0.000549	0.000515
mg/L		Vanadium	< 0.001	< 0.001	<0.0020	<0.0020
mg/L	0.5	Zinc	0.033	0.027	0.0069	0.0035

Alexco Resource Corp.

Brewery Creek Mine

Monitoring Pursuant to Water License QZ96-007

GroundWater Stations

	File Reference				
	Station	BC-67	BC-67	BC-67	BC-67
Units	Date	30-Apr-05	22-Jun-05	31-Aug-05	29-Dec-05
m/sec	Water Level or Flow				
pH units	pH (field)				
pH units	pH (lab)	8.21	7.95	7.98	7.78
uS/cm	Conductivity (field)				
uS/cm	Conductivity (lab)	557	561	547	558
°C	Temperature (field)				
mg CaCO ₃ /L	Hardness	316	314	327	326
mg CaCO ₃ /L	Alkalinity		275	277	290
mg/L	Total Dissolved Solids	330	332	312	341
mg/L	Total Suspended Solids	2370	1750	1930	1750
mg/L	Chloride	<0.50	0.69	<0.50	1.26
mg/L	Sulfate	51.1	45.8	45.1	42.9
mg /L	Ammonia	0.058	0.134	0.069	0.057
mg /L	Nitrate	0.0342	0.0772	0.0248	0.0186
mg/L	Total Cyanide	-	-	-	-
mg/L	WAD Cyanide	-	-	-	-
Dissolved Metals		DM	DM	DM	DM
mg/L	Aluminum	18.7	< 0.005	0.0041	0.0015
mg/L	Antimony	0.061	0.013	0.0119	0.0131
mg/L	Arsenic	0.74	0.067	0.0663	0.0576
mg/L	Barium	1.33	0.046	0.0394	0.0392
mg/L	Beryllium	0.003	< 0.001	<0.00050	<0.00050
mg/L	Bismuth	< 0.001	< 0.001	<0.00050	<0.00050
mg/L	Boron	0.07	< 0.05	0.012	0.013
mg/L	Cadmium	0.003	< 0.0002	<0.000050	0.000082
mg/L	Calcium	79.3	77.7	80.6	75.8
mg/L	Chromium	0.021	< 0.001	0.00062	<0.00050
mg/L	Cobalt	0.016	< 0.001	0.00064	0.00051
mg/L	Copper	0.047	0.002	0.00263	0.00177
mg/L	Iron	58.2	0.11	0.207	0.093
mg/L	Lead	0.057	< 0.001	<0.000050	<0.000050
mg/L	Lithium	0.011	0.008	0.0081	0.0069
mg/L	Magnesium	32.3	29.6	30.4	33.2
mg/L	Manganese	1.15	0.53	0.512	0.574
mg/L	Mercury	< 0.02	< 0.02	<0.000050	<0.000050
mg/L	Molybdenum	0.0026	< 0.0005	0.000416	0.000338
mg/L	Nickel	0.049	0.003	0.00418	0.00479
mg/L	Phosphorus	8.5	0.2	<0.30	<0.30
mg/L	Potassium	8.5	2	<2.0	2.3
mg/L	Selenium	< 0.001	< 0.001	<0.0010	<0.0010
mg/L	Silicon	70.8	8	3.29	3.65
mg/L	Silver	0.0005	< 0.00025	<0.000010	<0.000010
mg/L	Sodium	2.17	2.33	<2.0	2.5
mg/L	Strontium	0.42	0.38	0.375	0.39
mg/L	Sulphur	16.4	15.8	14.8	15.4
mg/L	Thallium	0.0005	< 0.0001	<0.00010	<0.00010
mg/L	Tin	< 0.001	< 0.001	<0.00010	<0.00010
mg/L	Titanium	0.095	< 0.001	<0.010	<0.010
mg/L	Uranium	0.0044	0.0014	0.00142	0.0015
mg/L	Vanadium	0.031	< 0.001	<0.0010	<0.0010
mg/L	Zinc	0.54	0.011	0.0178	0.0125

Alexco Resource Corp.

Brewery Creek Mine

Monitoring Pursuant to Water License QZ96-007

GroundWater Stations

	Station	BC-68	BC-68	BC-68	BC-68
Units	Date	30-Apr-05	22-Jun-05	31-Aug-05	29-Dec-05
m/sec	Water Level or Flow				
pH units	pH (field)				
pH units	pH (lab)	8.13	7.93	7.88	7.77
uS/cm	Conductivity (field)				
uS/cm	Conductivity (lab)	731	695	656	648
°C	Temperature (field)				
mg CaCO ₃ /L	Hardness	375	385	392	355
mg CaCO ₃ /L	Alkalinity		319	312	297
mg/L	Total Dissolved Solids	441	406	391	394
mg/L	Total Suspended Solids	725	228	141	383
mg/L	Chloride	<0.50	0.8	<0.50	0.99
mg/L	Sulfate	108	87.5	85.2	80.6
mg/L	Ammonia	0.205	0.33	0.221	0.28
mg/L	Nitrate	<0.0050	0.0106	0.0141	<0.0050
mg/L	Total Cyanide	-	-	-	-
mg/L	WAD Cyanide	-	-	-	-
Dissolved Metals		DM	DM	DM	DM
mg/L	Aluminum	2.54	< 0.005	0.0021	0.0038
mg/L	Antimony	0.11	0.01	0.0133	0.00799
mg/L	Arsenic	0.13	0.068	0.0869	0.0699
mg/L	Barium	0.2	0.023	0.0253	0.0266
mg/L	Beryllium	< 0.001	< 0.001	<0.00050	<0.00050
mg/L	Bismuth	< 0.001	< 0.001	<0.00050	<0.00050
mg/L	Boron	< 0.05	< 0.05	<0.010	<0.010
mg/L	Cadmium	0.0011	< 0.0002	<0.000050	<0.000050
mg/L	Calcium	85.1	81.5	88.1	75.6
mg/L	Chromium	0.014	< 0.001	0.00055	<0.00050
mg/L	Cobalt	0.011	0.002	0.00235	0.0034
mg/L	Copper	0.041	< 0.001	0.00076	0.00028
mg/L	Iron	13.4	1.21	1.23	1.09
mg/L	Lead	0.016	< 0.001	0.000067	<0.000050
mg/L	Lithium	0.009	0.009	0.0097	0.0088
mg/L	Magnesium	42.7	38.4	41.7	40.4
mg/L	Manganese	0.74	0.49	0.503	0.538
mg/L	Mercury	< 0.02	< 0.02	<0.000050	<0.000050
mg/L	Molybdenum	0.0021	0.0012	0.00158	0.0014
mg/L	Nickel	0.094	0.019	0.0198	0.0314
mg/L	Phosphorus	1.5	0.4	<0.30	<0.30
mg/L	Potassium	6.6	5.5	4.8	5.9
mg/L	Selenium	< 0.001	< 0.001	<0.0010	<0.0010
mg/L	Silicon	12.7	4.8	2.17	2.33
mg/L	Silver	0.0004	< 0.00025	<0.000010	<0.000010
mg/L	Sodium	1.85	1.9	<2.0	<2.0
mg/L	Strontium	0.27	0.23	0.248	0.229
mg/L	Sulphur	31.7	31.2	27.7	25.8
mg/L	Thallium	0.0004	< 0.0001	<0.00010	<0.00010
mg/L	Tin	< 0.001	< 0.001	0.00012	<0.00010
mg/L	Titanium	0.029	< 0.001	<0.010	<0.010
mg/L	Uranium	0.0087	0.0094	0.00944	0.00838
mg/L	Vanadium	0.011	< 0.001	<0.0010	<0.0010
mg/L	Zinc	0.15	0.009	0.0176	0.0141

Alexco Resource Corp.
Brewery Creek Mine
Monitoring Pursuant to Water License QZ96-007
GroundWater Stations

Appendix B6.1

	File Reference				
	Station	BC-69	BC-69	BC-69	BC-69
Units	Date	1-Apr-05	22-Jun-05	31-Aug-05	29-Dec-05
m/sec	Water Level or Flow	no sample			
pH units	pH (field)				
pH units	pH (lab)			7.99	7.88
uS/cm	Conductivity (field)				
uS/cm	Conductivity (lab)			1080	892
°C	Temperature (field)				
mg CaCO ₃ /L	Hardness			674	492
mg CaCO ₃ /L	Alkalinity			324	306
mg/L	Total Dissolved Solids			810	615
mg/L	Total Suspended Solids			264	562
mg/L	Chloride			<0.50	1.01
mg/L	Sulfate			331	219
mg/L	Ammonia			0.044	0.023
mg/L	Nitrate			0.29	0.119
mg/L	Total Cyanide			-	-
mg/L	WAD Cyanide			-	-
	Dissolved Metals	DM	DM	DM	DM
mg/L	Aluminum		< 0.005	0.017	0.0022
mg/L	Antimony		0.007	0.00654	0.00669
mg/L	Arsenic		0.039	0.0507	0.0434
mg/L	Barium		0.025	0.0226	0.0231
mg/L	Beryllium		< 0.001	<0.0010	<0.00050
mg/L	Bismuth		< 0.001	<0.0010	<0.00050
mg/L	Boron		< 0.05	<0.020	<0.010
mg/L	Cadmium		< 0.0002	0.00087	0.000621
mg/L	Calcium		165	126	89.1
mg/L	Chromium		< 0.001	<0.0010	<0.00050
mg/L	Cobalt		0.001	<0.00020	<0.00010
mg/L	Copper		0.001	0.00495	0.00089
mg/L	Iron		< 0.05	<0.030	<0.030
mg/L	Lead		< 0.001	0.00034	<0.000050
mg/L	Lithium		0.01	0.012	0.0108
mg/L	Magnesium		112	87.4	65.5
mg/L	Manganese		0.015	0.0252	0.0245
mg/L	Mercury		< 0.02	<0.000050	<0.000050
mg/L	Molybdenum		0.0009	0.00041	0.00026
mg/L	Nickel		0.005	0.0047	0.00363
mg/L	Phosphorus		0.2	<0.30	<0.30
mg/L	Potassium		9.1	7.4	8.1
mg/L	Selenium		0.034	0.0087	0.0036
mg/L	Silicon		7.7	2.84	3
mg/L	Silver		< 0.00025	<0.000020	<0.000010
mg/L	Sodium		3.42	2	2.1
mg/L	Strontium		0.88	0.705	0.516
mg/L	Sulphur		206	111	70.1
mg/L	Thallium		< 0.0001	0.00028	0.00027
mg/L	Tin		< 0.001	<0.00020	<0.00010
mg/L	Titanium		< 0.001	<0.010	<0.010
mg/L	Uranium		0.0082	0.00515	0.00232
mg/L	Vanadium		< 0.001	<0.0020	<0.0010
mg/L	Zinc		0.053	0.134	0.0993

Alexco Resource Corp.

Brewery Creek Mine
Monitoring Pursuant to Water License QZ96-007
GroundWater Stations

		Blue	Blue	Blue
	Station	Lysimeter	Lysimeter	Lysimeter
Units	Date	30-May-05	31-Aug-05	13-Oct-05
m/sec	Water Level or Flow			
pH units	pH (field)			
pH units	pH (lab)	7.75	7.70	7.46
uS/cm	Conductivity (field)			
uS/cm	Conductivity (lab)	1020	938	1120
°C	Temperature (field)			
mg CaCO ₃ /L	Hardness		596	694
mg CaCO ₃ /L	Alkalinity	398	424	480
mg/L	Total Dissolved Solids	694	630	816
mg/L	Total Suspended Solids		<3.0	59.5
mg/L	Chloride	20.6	19.2	18.4
mg/L	Sulfate	122	105	
mg /L	Ammonia	0.063	0.047	0.097
mg /L	Nitrate	13.2	0.357	0.3
mg/L	Total Cyanide		-	
mg/L	WAD Cyanide		-	
Dissolved Metals		DM	DM	DM
mg/L	Aluminum	0.002	0.002	0.0112
mg/L	Antimony	0.056	0.0663	0.151
mg/L	Arsenic	0.102	0.187	0.243
mg/L	Barium	0.201	0.173	0.204
mg/L	Beryllium	< 0.0002	<0.0010	<0.0010
mg/L	Bismuth	< 0.0002	<0.0010	<0.0010
mg/L	Boron	0.02	0.02	<0.020
mg/L	Cadmium	0.00067	0.00016	<0.00010
mg/L	Calcium	170	176	222
mg/L	Chromium	0.0004	<0.0010	<0.0010
mg/L	Cobalt	0.0008	0.00061	0.0023
mg/L	Copper	0.0033	0.00077	0.00073
mg/L	Iron	< 0.01	<0.030	<0.030
mg/L	Lead	< 0.0002	<0.00010	<0.00010
mg/L	Lithium	0.0013	<0.010	<0.010
mg/L	Magnesium	33.4	38.1	34.1
mg/L	Manganese	0.227	0.0817	0.875
mg/L	Mercury	0.16	<0.000050	<0.000050
mg/L	Molybdenum	0.0024	0.00184	0.00296
mg/L	Nickel	0.011	0.0071	0.014
mg/L	Phosphorus	0.16	<0.30	<0.30
mg/L	Potassium	2.84	2.8	2.6
mg/L	Selenium	0.011	0.0027	0.0016
mg/L	Silicon	12.9	7.08	6.78
mg/L	Silver	< 0.00005	<0.000020	<0.000020
mg/L	Sodium	3.76	3.6	3.6
mg/L	Strontium	0.808	0.822	0.886
mg/L	Sulphur	33	35.4	38.9
mg/L	Thallium	0.00012	<0.00020	<0.00020
mg/L	Tin	< 0.0002	<0.00020	<0.00020
mg/L	Titanium	0.0005	<0.010	<0.010
mg/L	Uranium	0.0067	0.00675	0.011
mg/L	Vanadium	0.0003	<0.0020	<0.0020
mg/L	Zinc	0.027	0.0162	0.0233

Alexco Resource Corp.
Brewery Creek Mine
Monitoring Pursuant to Water License QZ96-007
InPit Stations

Appendix B7.2

	Station	BC-10	BC-10	BC-10	BC-10
Units	Date	30-Apr-05	23-Jun-05	30-Aug-05	29-Dec-05
m/sec	Water Level or Flow				
pH units	pH (field)				
pH units	pH (lab)	7.42	8.19	8.22	7.94
uS/cm	Conductivity (field)				
uS/cm	Conductivity (lab)	35.2	358	380	454
°C	Temperature (field)				
mg CaCO ₃ /L	Hardness	15.7	182	215	252
mg CaCO ₃ /L	Alkalinity		94.9	113	137
mg/L	Total Dissolved Solids	38	226	256	277
mg/L	Total Suspended Solids	28.2	4.4	<3.0	<3.0
mg/L	Chloride	<0.50	<0.50	<0.50	0.89
mg/L	Sulfate	4	93.3	94.3	113
mg/L	Ammonia	0.043	0.046	0.028	0.024
mg/L	Nitrate	0.164	<0.0050	0.101	0.251
mg/L	Total Cyanide	-	-	-	-
mg/L	WAD Cyanide	-	-	-	-
	Total Metals	TM	TM	TM	TM
mg/L	Aluminum	1.05	0.094	0.0461	0.0242
mg/L	Antimony	0.013	0.11	0.153	0.134
mg/L	Arsenic	0.016	0.012	0.00878	0.00872
mg/L	Barium	0.19	0.12	0.177	0.117
mg/L	Beryllium	< 0.001	< 0.001	<0.00050	<0.00050
mg/L	Bismuth	< 0.001	< 0.001	<0.00050	<0.00050
mg/L	Boron	< 0.05	< 0.05	<0.010	<0.010
mg/L	Cadmium	< 0.0002	< 0.0002	0.000072	0.000074
mg/L	Calcium	4.78	43.7	52.4	56.6
mg/L	Chromium	0.002	< 0.001	<0.00050	<0.00050
mg/L	Cobalt	< 0.001	< 0.001	<0.00010	<0.00010
mg/L	Copper	0.003	< 0.001	0.00103	0.00056
mg/L	Iron	0.79	0.15	<0.030	<0.030
mg/L	Lead	0.001	< 0.001	0.00014	0.000433
mg/L	Lithium	< 0.001	0.003	<0.0050	<0.0050
mg/L	Magnesium	1.29	18.3	20.3	26.9
mg/L	Manganese	0.026	0.007	0.0219	0.0112
mg/L	Mercury	0.08	0.03	<0.000050	<0.000050
mg/L	Molybdenum	0.0011	0.0039	0.00379	0.00322
mg/L	Nickel	0.002	0.003	0.00074	0.00071
mg/L	Phosphorus	0.4	< 0.15	<0.30	<0.30
mg/L	Potassium	1.1	1.1	<2.0	<2.0
mg/L	Selenium	< 0.001	< 0.001	0.0048	0.0048
mg/L	Silicon	4.8	4.4	1.95	2.45
mg/L	Silver	< 0.00025	< 0.00025	<0.000010	<0.000010
mg/L	Sodium	0.17	0.69	<2.0	<2.0
mg/L	Strontium	0.032	0.38	0.43	0.462
mg/L	Sulphur	1.63	28.2	30.8	37.6
mg/L	Thallium	< 0.0001	< 0.0001	0.0001	<0.00010
mg/L	Tin	< 0.001	< 0.001	<0.00010	0.00019
mg/L	Titanium	0.021	0.003	<0.010	<0.010
mg/L	Uranium	< 0.0005	0.0055	0.00585	0.00613
mg/L	Vanadium	0.006	< 0.001	<0.0010	<0.0010
mg/L	Zinc	0.011	< 0.005	<0.010	0.0037

Alexco Resource Corp.

Brewery Creek Mine

Monitoring Pursuant to Water License QZ96-007

InPit Stations

	Station	BC-12	BC-12	BC-12	BC-12
Units	Date	30-Apr-05	22-Jun-05	30-Aug-05	29-Dec-05
m/sec	Water Level or Flow				
pH units	pH (field)				
pH units	pH (lab)	6.36	3.33	3.78	4.62
uS/cm	Conductivity (field)				
uS/cm	Conductivity (lab)	308	1910	1050	978
°C	Temperature (field)				
mg CaCO ₃ /L	Hardness	130	972	565	534
mg CaCO ₃ /L	Alkalinity		<2.0	<2.0	3.3
mg/L	Total Dissolved Solids	228	1630	880	851
mg/L	Total Suspended Solids	483	8	<3.0	5
mg/L	Chloride	1.02	1.58	1.28	1.35
mg/L	Sulfate	138	1130	561	572
mg /L	Ammonia	0.175	0.221	0.046	0.08
mg /L	Nitrate	0.562	2.26	0.516	0.116
mg/L	Total Cyanide	-		-	-
mg/L	WAD Cyanide	-	-	-	-
	Total Metals	TM	TM	TM	TM
mg/L	Aluminum	3.41	8.95	1.75	2.33
mg/L	Antimony	0.031	0.007	0.0127	0.0133
mg/L	Arsenic	0.14	0.007	0.0498	0.12
mg/L	Barium	0.35	0.15	0.14	0.0836
mg/L	Beryllium	< 0.001	0.018	0.0072	0.0054
mg/L	Bismuth	< 0.001	< 0.001	<0.0010	<0.0010
mg/L	Boron	< 0.05	< 0.05	0.026	<0.020
mg/L	Cadmium	0.0018	0.02	0.0105	0.00722
mg/L	Calcium	32.2	237	143	128
mg/L	Chromium	0.005	0.003	<0.0010	<0.0010
mg/L	Cobalt	0.013	0.24	0.108	0.0864
mg/L	Copper	0.018	0.47	0.082	0.114
mg/L	Iron	4.51	14	3.02	2.2
mg/L	Lead	0.006	< 0.001	0.00027	0.00038
mg/L	Lithium	0.003	0.022	0.014	<0.010
mg/L	Magnesium	12.8	88.9	50.7	52.3
mg/L	Manganese	0.62	7.17	3.65	2.88
mg/L	Mercury	1.29	0.04	<0.000050	<0.000050
mg/L	Molybdenum	0.001	< 0.0005	<0.00010	0.00014
mg/L	Nickel	0.043	0.5	0.257	0.22
mg/L	Phosphorus	0.5	< 0.15	<0.30	<0.30
mg/L	Potassium	2	3.7	3.4	3
mg/L	Selenium	< 0.001	0.003	0.002	<0.0010
mg/L	Silicon	13.4	22.6	6.6	4.73
mg/L	Silver	0.0005	< 0.00025	<0.000020	<0.000020
mg/L	Sodium	0.71	1.76	<2.0	<2.0
mg/L	Strontium	0.22	1.19	0.772	0.977
mg/L	Sulphur	43.4	349	188	189
mg/L	Thallium	< 0.0001	< 0.0001	<0.00020	<0.00020
mg/L	Tin	< 0.001	< 0.001	<0.00020	0.00025
mg/L	Titanium	0.065	0.003	<0.010	<0.010
mg/L	Uranium	0.0009	0.014	0.00133	0.00503
mg/L	Vanadium	0.02	< 0.001	<0.0020	<0.0020
mg/L	Zinc	0.12	1.35	0.616	0.5

Alexco Resource Corp.

Brewery Creek Mine

Monitoring Pursuant to Water License QZ96-007

InPit Stations

	File Reference				
	Station	BC-15	BC-15	BC-15	BC-15
Units	Date	30-Apr-05	22-Jun-05	31-Aug-05	29-Dec-05
m/sec	Water Level or Flow				
pH units	pH (field)				
pH units	pH (lab)	7.76	7.32	7.59	6.87
uS/cm	Conductivity (field)				
uS/cm	Conductivity (lab)	331	704	869	973
°C	Temperature (field)				
mg CaCO ₃ /L	Hardness	154	380	532	565
mg CaCO ₃ /L	Alkalinity		79.2	102	94.9
mg/L	Total Dissolved Solids	217	510	738	796
mg/L	Total Suspended Solids	14.2	<3.0	<3.0	<3.0
mg/L	Chloride	<0.50	<0.50	<0.50	0.55
mg/L	Sulfate	110	287	390	464
mg /L	Ammonia	<0.020	0.051	0.043	0.026
mg /L	Nitrate	1.82	3.49	3.33	3.75
mg/L	Total Cyanide	-	-	-	-
mg/L	WAD Cyanide	-	-	-	-
Total Metals		TM	TM	TM	TM
mg/L	Aluminum	0.68	0.039	0.0127	0.0326
mg/L	Antimony	0.001	0.004	0.00409	0.00276
mg/L	Arsenic	0.036	0.04	0.0309	0.0169
mg/L	Barium	0.082	0.055	0.0351	0.0463
mg/L	Beryllium	< 0.001	< 0.001	<0.0010	<0.0010
mg/L	Bismuth	< 0.001	< 0.001	<0.0010	<0.0010
mg/L	Boron	< 0.05	< 0.05	<0.020	<0.020
mg/L	Cadmium	< 0.0002	< 0.0002	<0.00010	<0.00010
mg/L	Calcium	31.3	83.6	117	120
mg/L	Chromium	0.001	< 0.001	<0.0010	<0.0010
mg/L	Cobalt	< 0.001	< 0.001	<0.00020	<0.00020
mg/L	Copper	0.002	0.001	<0.00020	0.0004
mg/L	Iron	0.48	0.08	<0.030	<0.030
mg/L	Lead	< 0.001	< 0.001	<0.00010	0.00019
mg/L	Lithium	< 0.001	0.001	<0.010	<0.010
mg/L	Magnesium	16.5	43.5	58.4	64.8
mg/L	Manganese	0.01	0.006	0.00498	0.00284
mg/L	Mercury	0.06	0.04	<0.000050	<0.000050
mg/L	Molybdenum	< 0.0005	0.0007	0.00068	0.00047
mg/L	Nickel	0.001	0.002	0.001	0.0011
mg/L	Phosphorus	< 0.15	< 0.15	<0.30	<0.30
mg/L	Potassium	0.7	1.2	<2.0	<2.0
mg/L	Selenium	0.017	0.033	0.0349	0.0437
mg/L	Silicon	4.3	2.7	0.813	0.933
mg/L	Silver	< 0.00025	< 0.00025	<0.000020	<0.000020
mg/L	Sodium	0.21	0.48	<2.0	<2.0
mg/L	Strontium	0.26	0.78	1	1.13
mg/L	Sulphur	32.5	89.7	133	156
mg/L	Thallium	< 0.0001	< 0.0001	<0.00020	<0.00020
mg/L	Tin	< 0.001	< 0.001	<0.00020	0.00028
mg/L	Titanium	0.033	0.003	<0.010	<0.010
mg/L	Uranium	< 0.0005	0.001	0.00184	0.00181
mg/L	Vanadium	0.003	< 0.001	<0.0020	<0.0020
mg/L	Zinc	0.006	< 0.005	0.0022	0.0052

Alexco Resource Corp.

Brewery Creek Mine

Monitoring Pursuant to Water License QZ96-007

InPit Stations

	File Reference				
	Station	BC-17	BC-17	BC-17	BC-17
Units	Date	30-Apr-05	23-Jun-05	30-Aug-05	29-Dec-05
m/sec	Water Level or Flow				
pH units	pH (field)				
pH units	pH (lab)	8.10	8.20	8.25	7.74
uS/cm	Conductivity (field)				
uS/cm	Conductivity (lab)	407	700	696	708
°C	Temperature (field)				
mg CaCO ₃ /L	Hardness	195	385	413	387
mg CaCO ₃ /L	Alkalinity		153	170	187
mg/L	Total Dissolved Solids	262	480	542	507
mg/L	Total Suspended Solids	4.2	<3.0	3.3	<3.0
mg/L	Chloride	<0.50	0.81	0.54	0.61
mg/L	Sulfate	124	242	229	222
mg /L	Ammonia	0.022	0.041	0.05	<0.020
mg /L	Nitrate	0.315	0.401	0.12	0.165
mg/L	Total Cyanide	-	-	-	-
mg/L	WAD Cyanide	-	-	-	-
Total Metals		TM	TM	TM	TM
mg/L	Aluminum	0.086	0.027	0.0184	0.0082
mg/L	Antimony	0.031	0.06	0.0603	0.0434
mg/L	Arsenic	0.017	0.022	0.0255	0.028
mg/L	Barium	0.027	0.045	0.043	0.0314
mg/L	Beryllium	< 0.001	< 0.001	<0.00050	<0.00050
mg/L	Bismuth	< 0.001	< 0.001	<0.00050	<0.00050
mg/L	Boron	< 0.05	< 0.05	<0.010	<0.010
mg/L	Cadmium	< 0.0002	< 0.0002	<0.000050	0.000066
mg/L	Calcium	44	96.7	98.9	90.2
mg/L	Chromium	< 0.001	< 0.001	<0.00050	0.00059
mg/L	Cobalt	< 0.001	< 0.001	<0.00010	<0.00010
mg/L	Copper	< 0.001	< 0.001	0.00033	0.00064
mg/L	Iron	0.19	0.08	<0.030	<0.030
mg/L	Lead	< 0.001	< 0.001	0.000149	0.000609
mg/L	Lithium	0.004	0.01	0.01	0.0078
mg/L	Magnesium	17.1	39.5	40.4	39.3
mg/L	Manganese	0.038	0.027	0.0112	0.0243
mg/L	Mercury	< 0.02	0.02	<0.000050	<0.000050
mg/L	Molybdenum	0.0042	0.0065	0.00702	0.00718
mg/L	Nickel	0.002	0.003	0.00106	0.0006
mg/L	Phosphorus	< 0.15	< 0.15	<0.30	<0.30
mg/L	Potassium	0.7	1.6	<2.0	<2.0
mg/L	Selenium	< 0.001	< 0.001	0.003	0.0026
mg/L	Silicon	4.5	7.1	3.17	3.55
mg/L	Silver	< 0.00025	< 0.00025	<0.000010	<0.000010
mg/L	Sodium	0.82	1.67	<2.0	<2.0
mg/L	Strontium	0.32	0.7	0.72	0.669
mg/L	Sulphur	36.8	74.3	77.4	70
mg/L	Thallium	< 0.0001	< 0.0001	0.00017	<0.00010
mg/L	Tin	< 0.001	< 0.001	<0.00010	0.00037
mg/L	Titanium	0.002	< 0.001	<0.010	<0.010
mg/L	Uranium	0.0039	0.009	0.00994	0.0119
mg/L	Vanadium	< 0.001	< 0.001	<0.0010	<0.0010
mg/L	Zinc	0.007	< 0.005	<0.0030	0.0181

Alexco Resource Corp.

Brewery Creek Mine

Monitoring Pursuant to Water License QZ96-007

InPit Stations

	Station	BC-18	BC-18	BC-18	BC-18
Units	Date	30-Apr-05	23-Jun-05	31-Aug-05	December
m/sec	Water Level or Flow				no water
pH units	pH (field)				
pH units	pH (lab)	7.69	7.79	7.75	
uS/cm	Conductivity (field)				
uS/cm	Conductivity (lab)	148	1820	1780	
°C	Temperature (field)				
mg CaCO ₃ /L	Hardness	67.1	1140	1140	
mg CaCO ₃ /L	Alkalinity		416	412	
mg/L	Total Dissolved Solids	86	1490	1600	
mg/L	Total Suspended Solids	<3.0	<3.0	<3.0	
mg/L	Chloride	<0.50	0.95	<2.5	
mg/L	Sulfate	47.3	727	781	
mg/L	Ammonia	0.033	0.082	0.069	
mg/L	Nitrate	0.0574	0.712	0.394	
mg/L	Total Cyanide	-	-	-	
mg/L	WAD Cyanide	-	-	-	
Total Metals		TM	TM	TM	
mg/L	Aluminium	0.018	0.71	0.0058	
mg/L	Antimony	0.043	0.015	0.0147	
mg/L	Arsenic	0.022	0.006	0.00481	
mg/L	Barium	0.006	0.017	0.0126	
mg/L	Beryllium	< 0.001	< 0.001	<0.0025	
mg/L	Bismuth	< 0.001	< 0.001	<0.0025	
mg/L	Boron	< 0.05	0.11	<0.050	
mg/L	Cadmium	< 0.0002	< 0.0002	<0.00025	
mg/L	Calcium	20.2	302	303	
mg/L	Chromium	< 0.001	< 0.001	<0.0025	
mg/L	Cobalt	< 0.001	< 0.001	<0.00050	
mg/L	Copper	< 0.001	0.003	0.00082	
mg/L	Iron	0.05	0.07	<0.030	
mg/L	Lead	< 0.001	0.003	<0.00025	
mg/L	Lithium	< 0.001	0.014	<0.025	
mg/L	Magnesium	8.54	101	94.1	
mg/L	Manganese	< 0.001	0.26	0.512	
mg/L	Mercury	< 0.02	0.02	<0.000050	
mg/L	Molybdenum	< 0.0005	< 0.0005	<0.00025	
mg/L	Nickel	< 0.001	< 0.001	<0.0025	
mg/L	Phosphorus	< 0.15	< 0.15	<0.30	
mg/L	Potassium	0.5	4.2	5.2	
mg/L	Selenium	< 0.001	< 0.001	0.0018	
mg/L	Silicon	0.6	7.6	3.06	
mg/L	Silver	< 0.00025	< 0.00025	<0.000050	
mg/L	Sodium	0.14	2.54	2.7	
mg/L	Strontium	0.21	2.57	2.46	
mg/L	Sulphur	19.7	242	232	
mg/L	Thallium	< 0.001	0.0014	0.002	
mg/L	Tin	< 0.0001	< 0.001	<0.00050	
mg/L	Titanium	< 0.0005	0.002	<0.010	
mg/L	Uranium	< 0.001	0.0097	0.0106	
mg/L	Vanadium	< 0.001	< 0.001	<0.0050	
mg/L	Zinc	< 0.0005	0.015	0.0118	

Alexco Resource Corp.

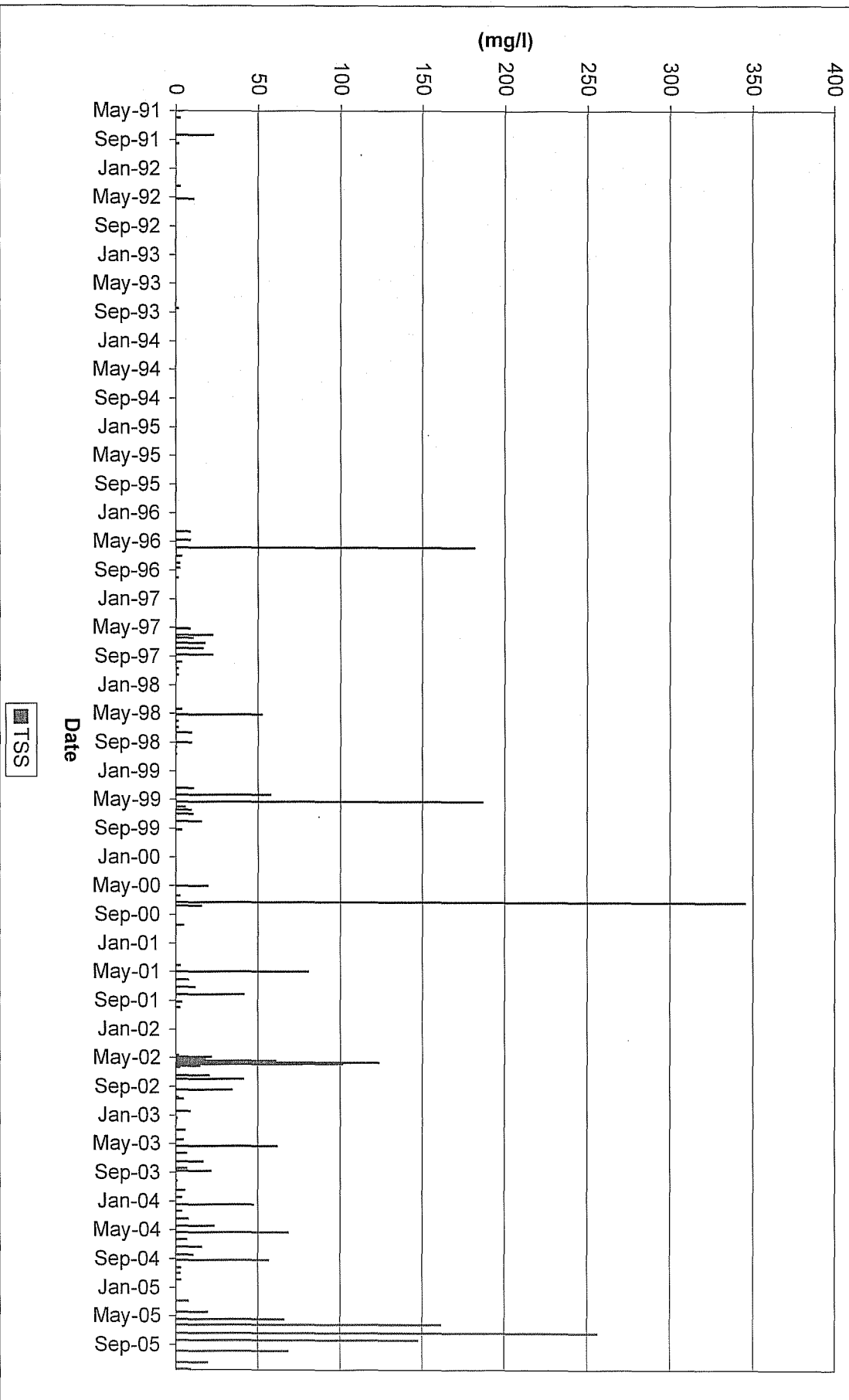
Brewery Creek Mine

Monitoring Pursuant to Water License QZ96-007

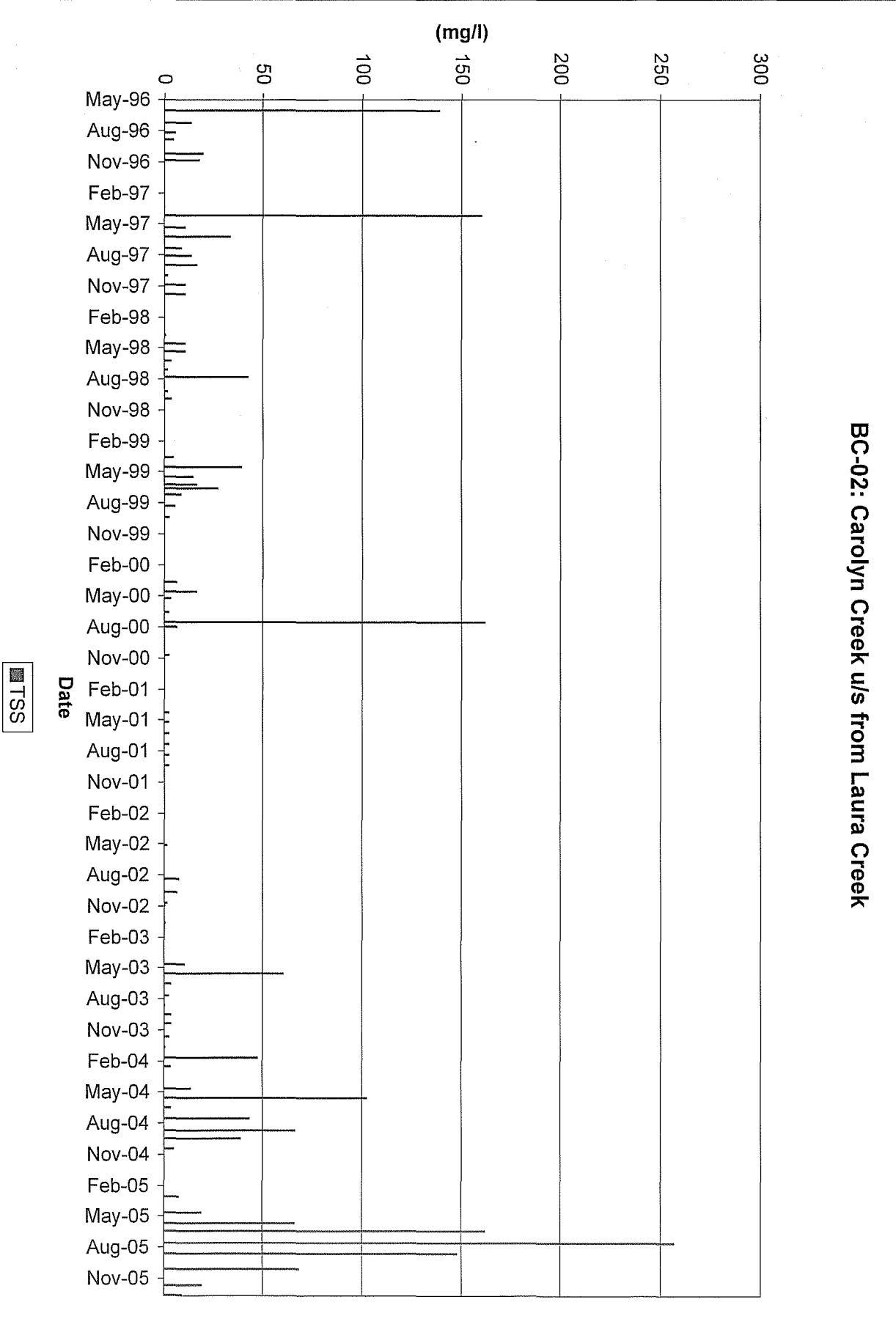
InPit Stations

	File Reference				
	Station	BC-51W	BC-51	BC-51	BC-51
Units	Date	30-Apr-05	23-Jun-05	31-Aug-05	29-Dec-05
m/sec	Water Level or Flow				
pH units	pH (field)				
pH units	pH (lab)	6.37	3.28	3.24	3.70
uS/cm	Conductivity (field)				
uS/cm	Conductivity (lab)	170	961	1320	1030
°C	Temperature (field)				
mg CaCO ₃ /L	Hardness	69.4	334	584	452
mg CaCO ₃ /L	Alkalinity		<2.0	<2.0	<2.0
mg/L	Total Dissolved Solids	126	667	905	816
mg/L	Total Suspended Solids	161	<3.0	<3.0	<3.0
mg/L	Chloride	0.74	1.29	1.16	0.8
mg/L	Sulfate	68.7	420	669	542
mg/L	Ammonia	0.078	0.071	0.036	0.057
mg/L	Nitrate	0.677	1.57	1.13	0.653
mg/L	Total Cyanide	-	-	-	-
mg/L	WAD Cyanide	-	-	-	-
	Total Metals	TM	TM	TM	TM
mg/L	Aluminum	2.95	8.69	12	5.97
mg/L	Antimony	0.021	0.004	0.004	0.00799
mg/L	Arsenic	0.13	0.012	0.0316	0.0198
mg/L	Barium	0.3	0.13	0.136	0.0712
mg/L	Beryllium	0.002	0.025	0.0402	0.0176
mg/L	Bismuth	< 0.001	< 0.001	<0.0010	<0.00050
mg/L	Boron	< 0.05	< 0.05	<0.020	<0.010
mg/L	Cadmium	0.0011	0.0082	0.0123	0.0055
mg/L	Calcium	15.5	72.9	136	98.5
mg/L	Chromium	0.003	0.005	0.0073	0.00329
mg/L	Cobalt	0.013	0.09	0.174	0.0975
mg/L	Copper	0.078	0.88	1.3	0.596
mg/L	Iron	3.47	10.6	11.2	3.86
mg/L	Lead	0.004	< 0.001	0.00075	0.000185
mg/L	Lithium	0.003	0.013	0.024	0.0142
mg/L	Magnesium	5.9	31.5	59.3	50.1
mg/L	Manganese	0.6	3.61	7.55	5.09
mg/L	Mercury	0.85	0.03	<0.000050	<0.000050
mg/L	Molybdenum	0.0007	< 0.0005	0.00013	0.000212
mg/L	Nickel	0.035	0.24	0.437	0.261
mg/L	Phosphorus	0.5	< 0.15	<0.30	<0.30
mg/L	Potassium	1.8	2.1	2.8	2.7
mg/L	Selenium	< 0.001	0.007	0.0087	0.0055
mg/L	Silicon	11.1	17.9	12.1	10.5
mg/L	Silver	< 0.00025	< 0.00025	0.000051	0.000012
mg/L	Sodium	0.56	0.95	<2.0	<2.0
mg/L	Strontium	0.09	0.4	0.79	0.656
mg/L	Sulphur	19.1	135	224	165
mg/L	Thallium	< 0.0001	< 0.0001	<0.00020	0.00016
mg/L	Tin	0.005	< 0.001	<0.00020	<0.00010
mg/L	Titanium	0.038	0.002	<0.010	<0.010
mg/L	Uranium	0.0013	0.011	0.0184	0.00735
mg/L	Vanadium	0.011	< 0.001	<0.0020	<0.0010
mg/L	Zinc	0.12	0.74	1.29	0.685

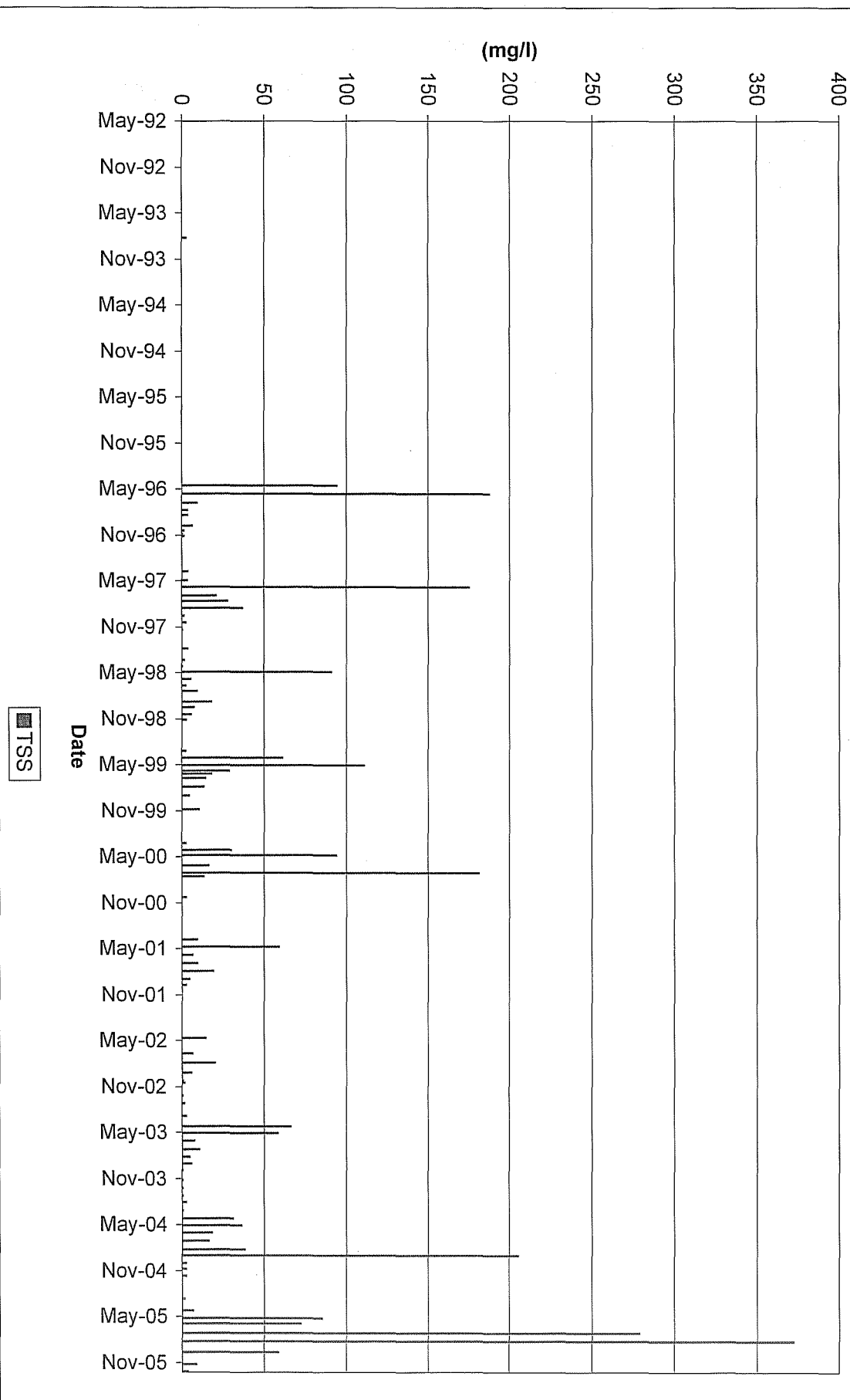
BC-01: Laura Creek 50m above Ditch Road



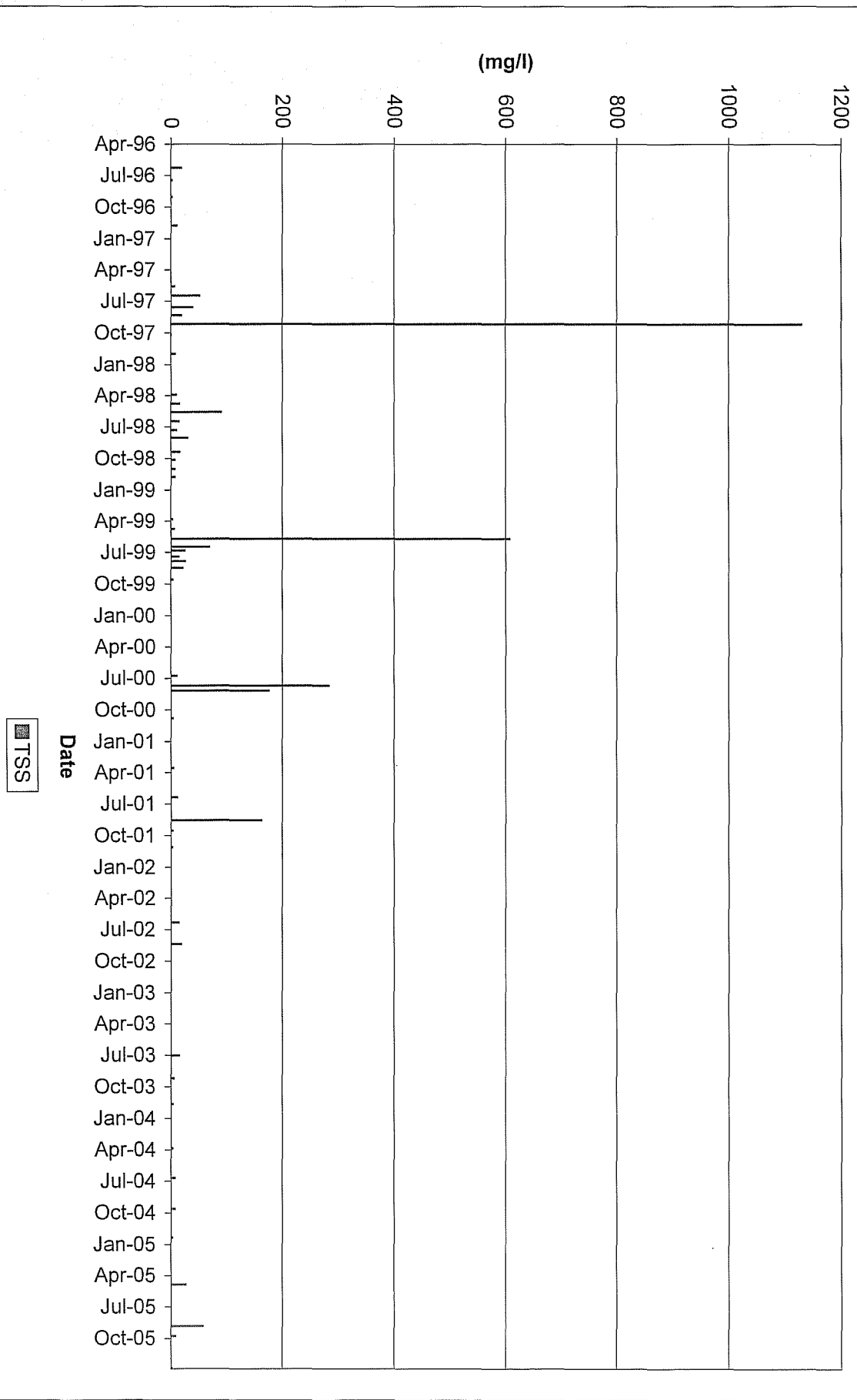
BC-02: Carolyn Creek u/s from Laura Creek



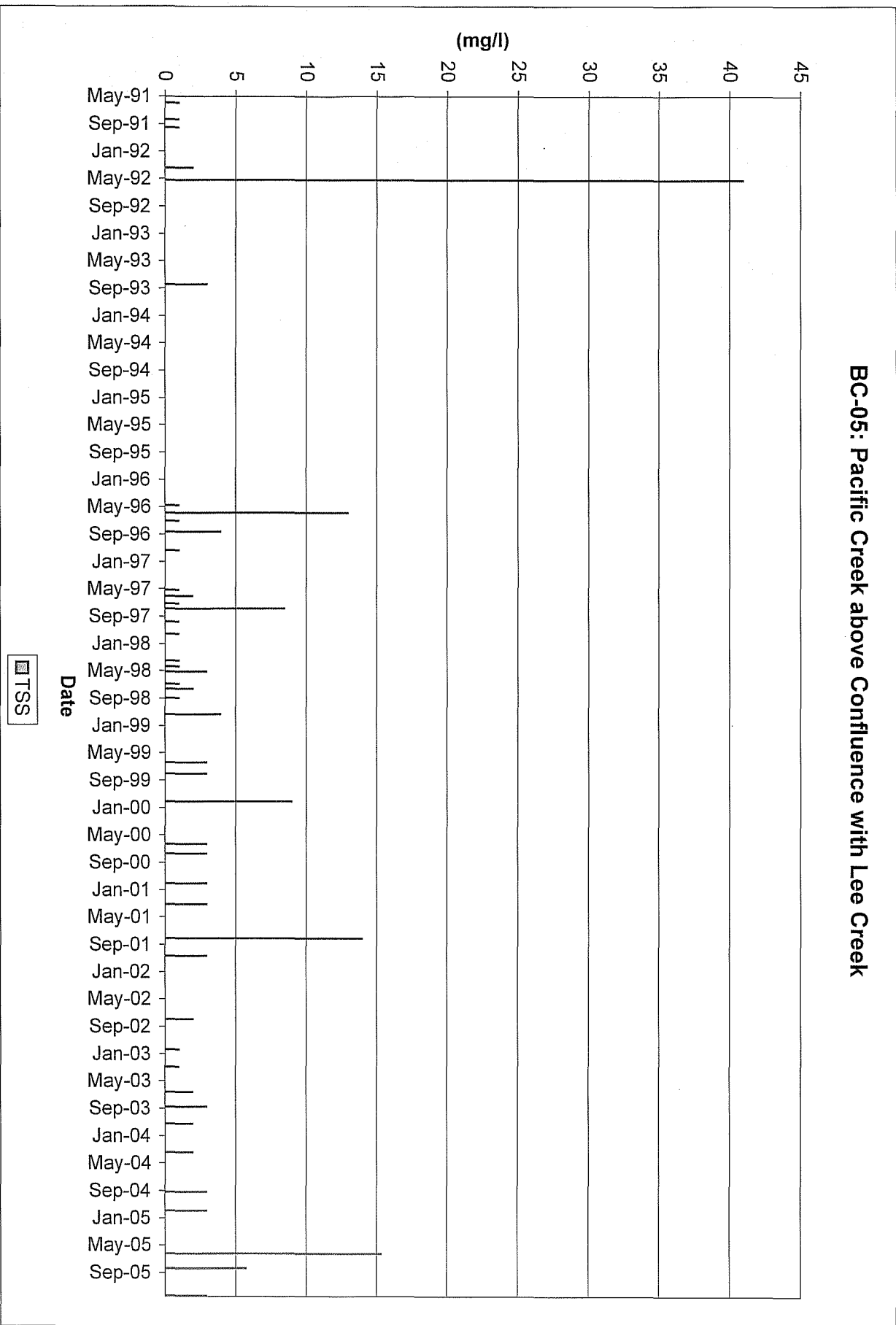
BC-03: Laura Creek Above Carolyn Creek



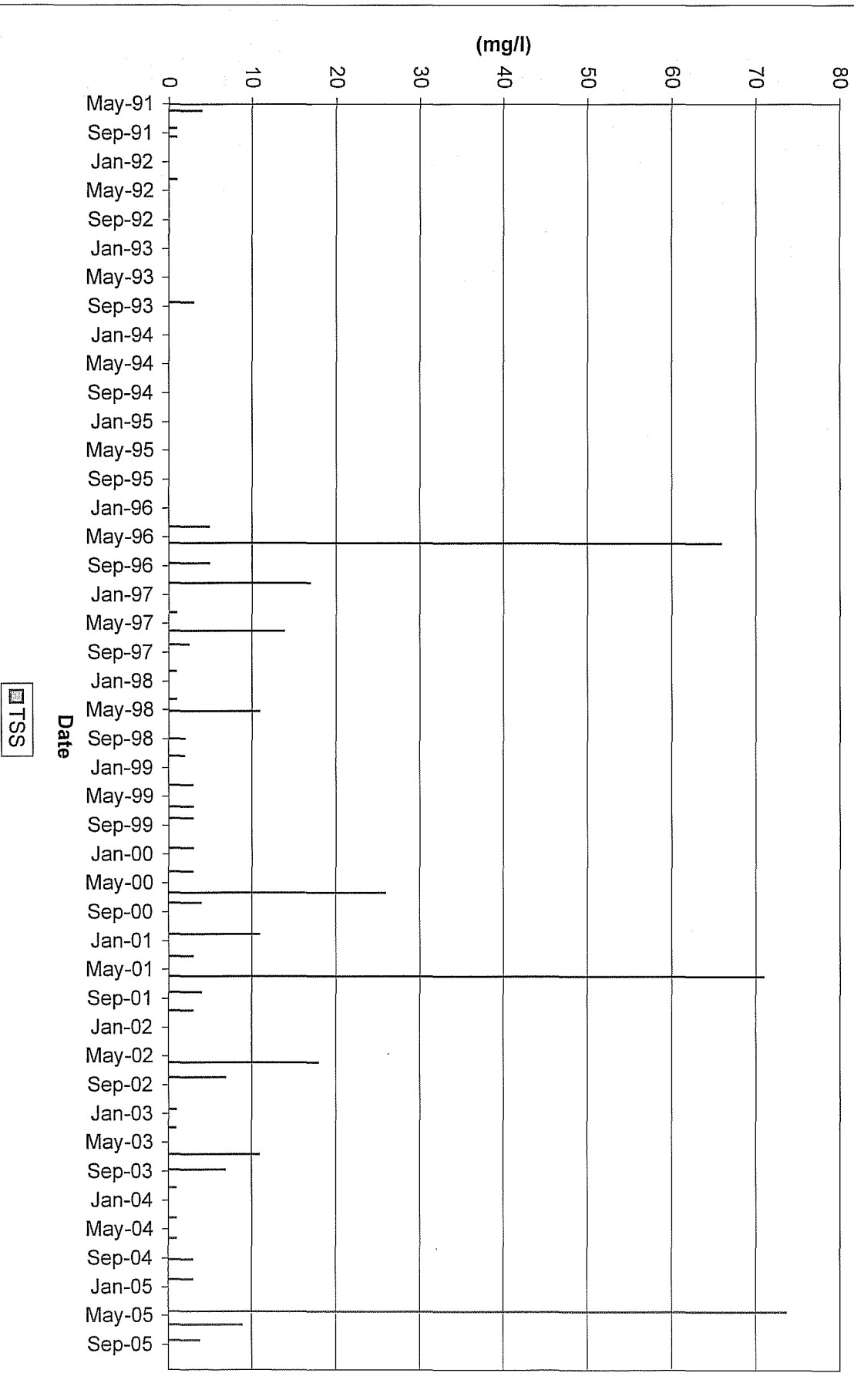
BC-04: Lucky Creek



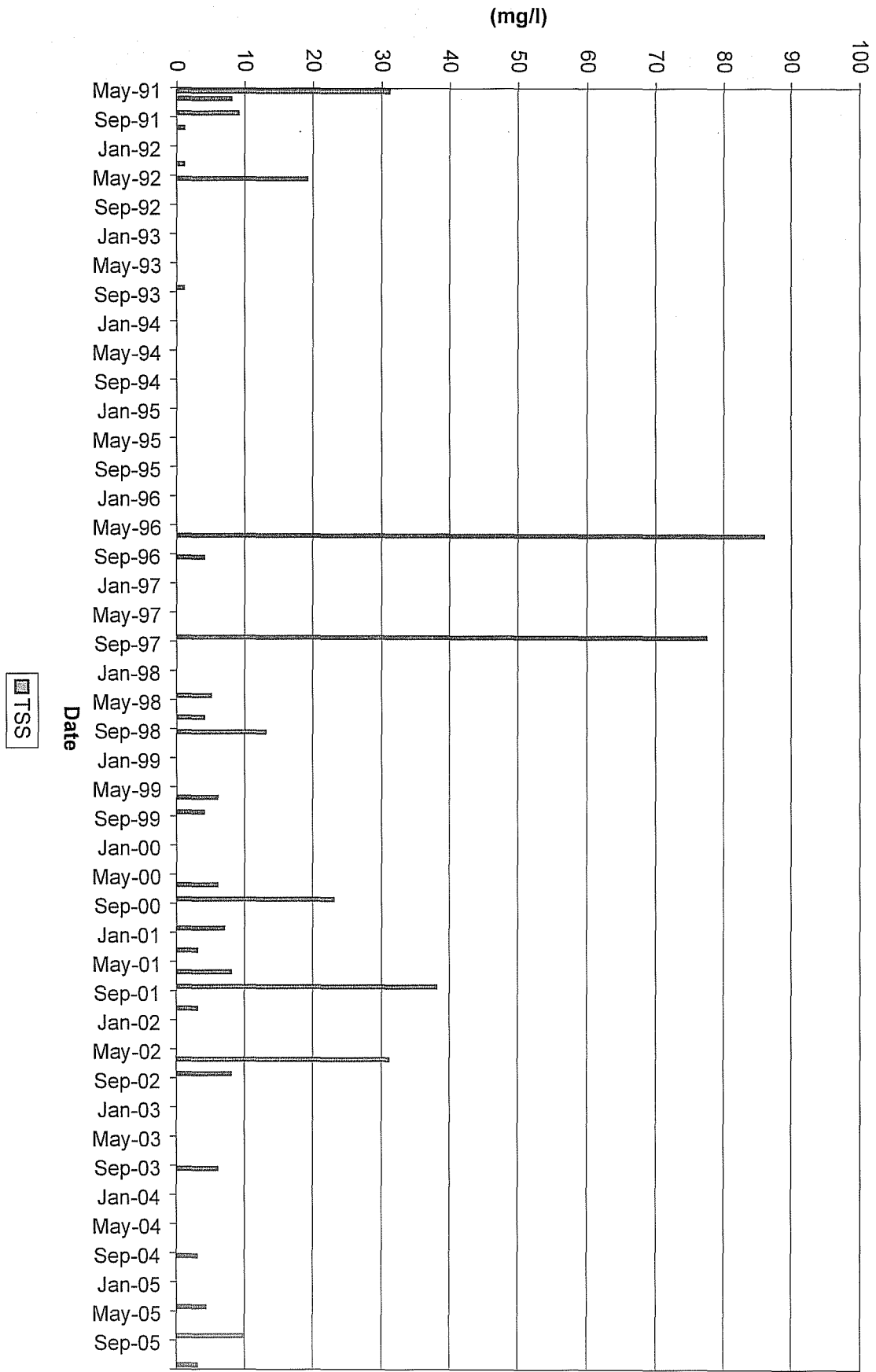
BC-05: Pacific Creek above Confluence with Lee Creek



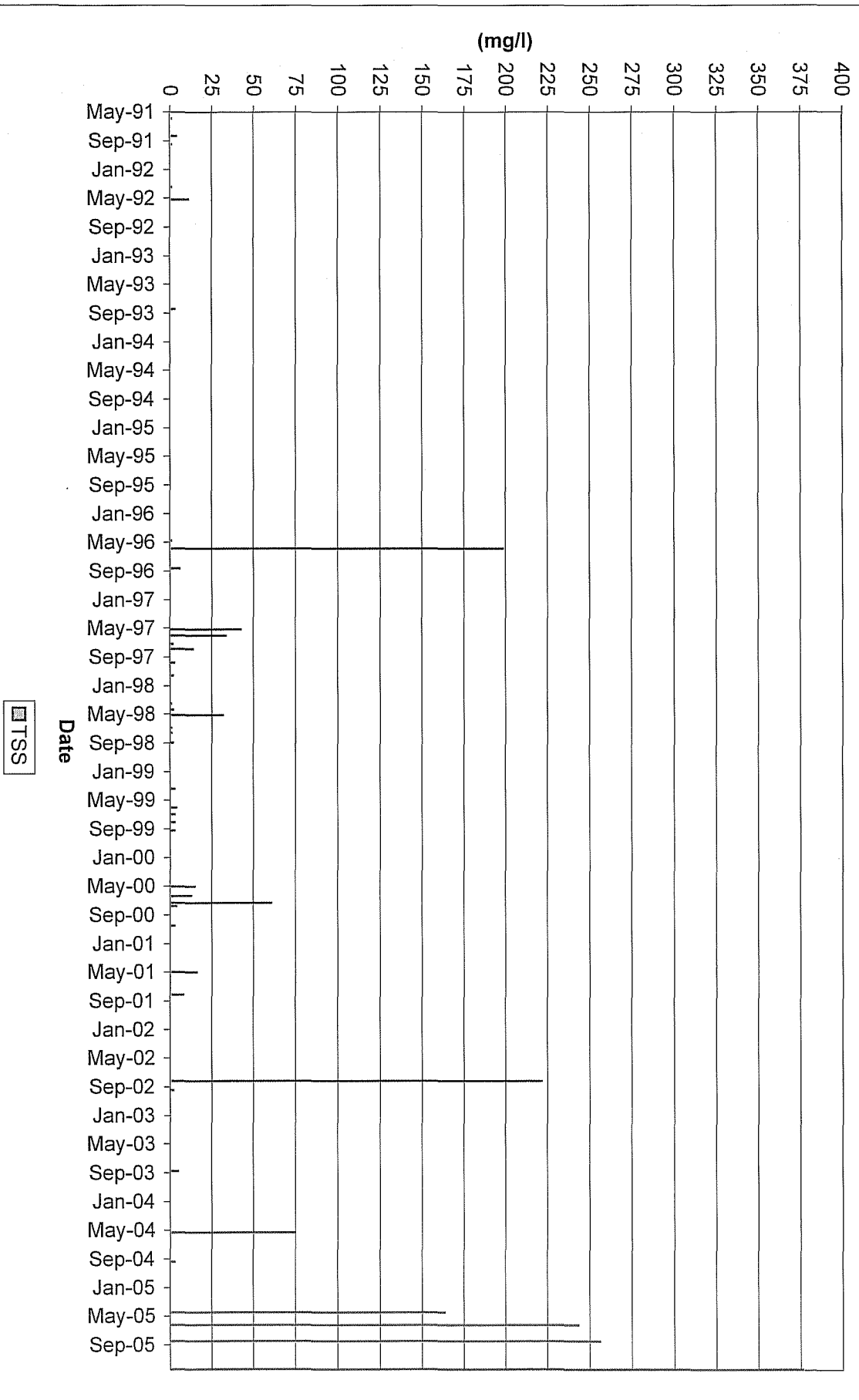
BC-06: S. Klondike d/s from confluence w/Lee Creek



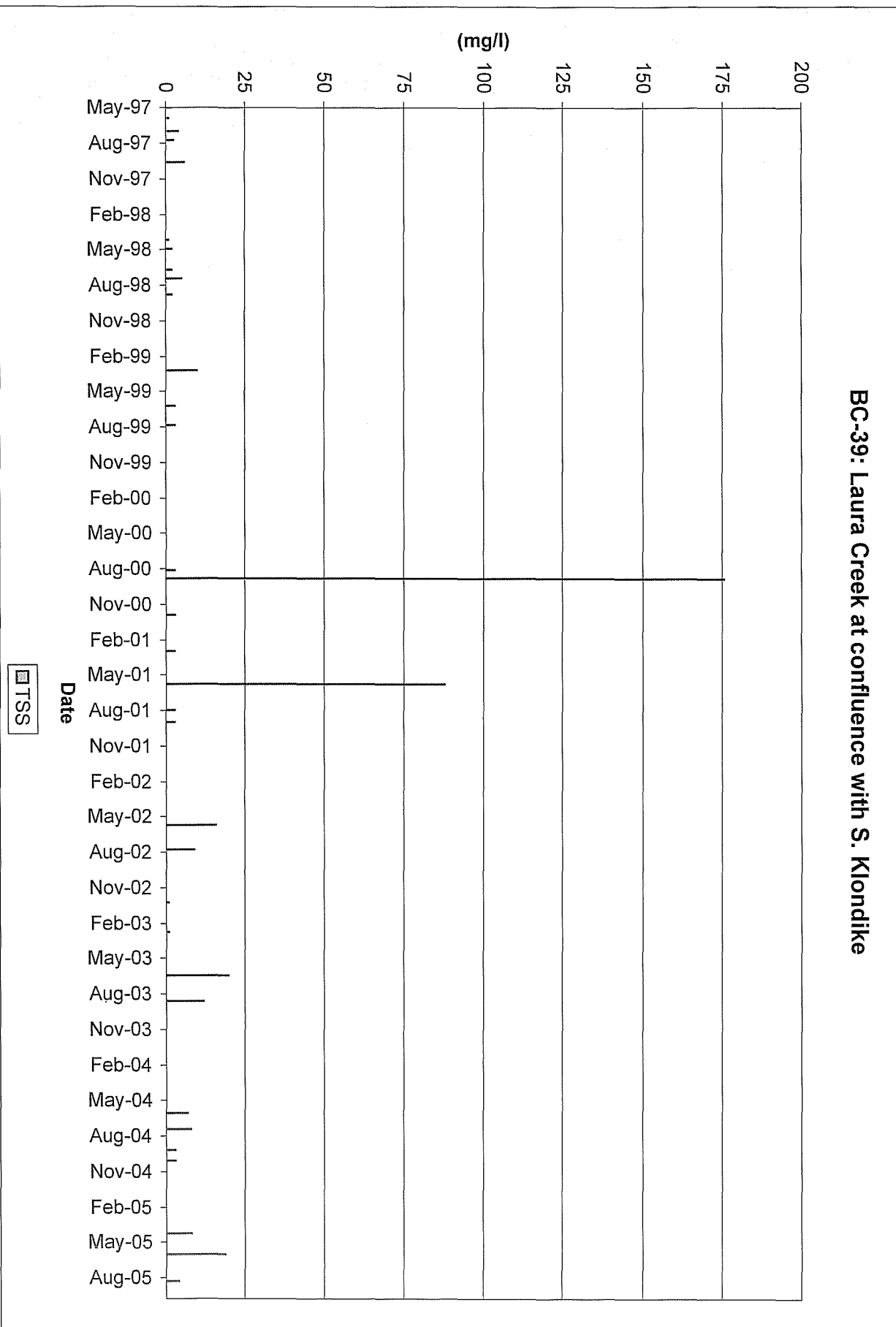
BC-31: Golden Cr. Upstream of confluence with S. Klondike



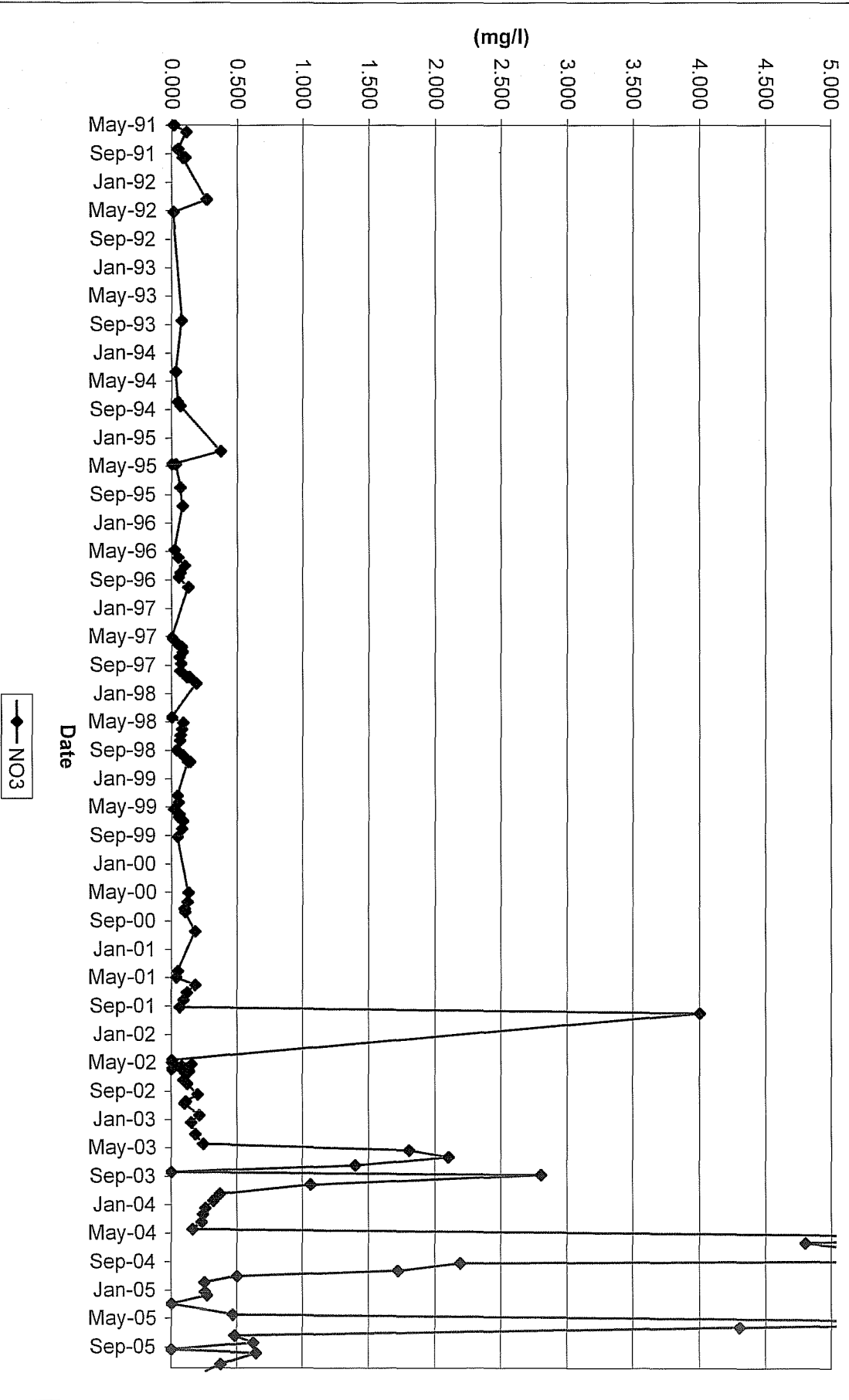
BC-34: Lee Creek At Ditch Road



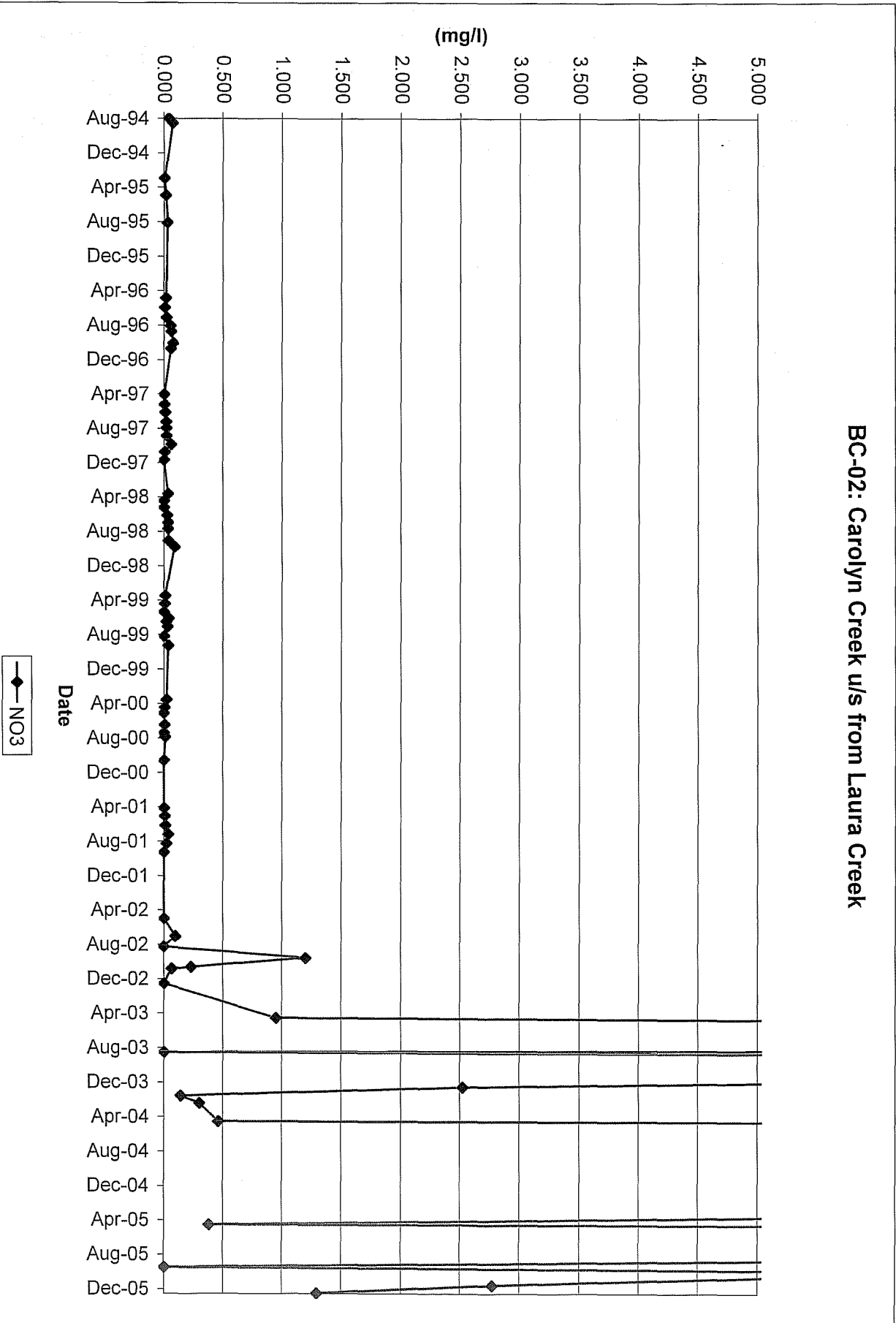
BC-39: Laura Creek at confluence with S. Klondike



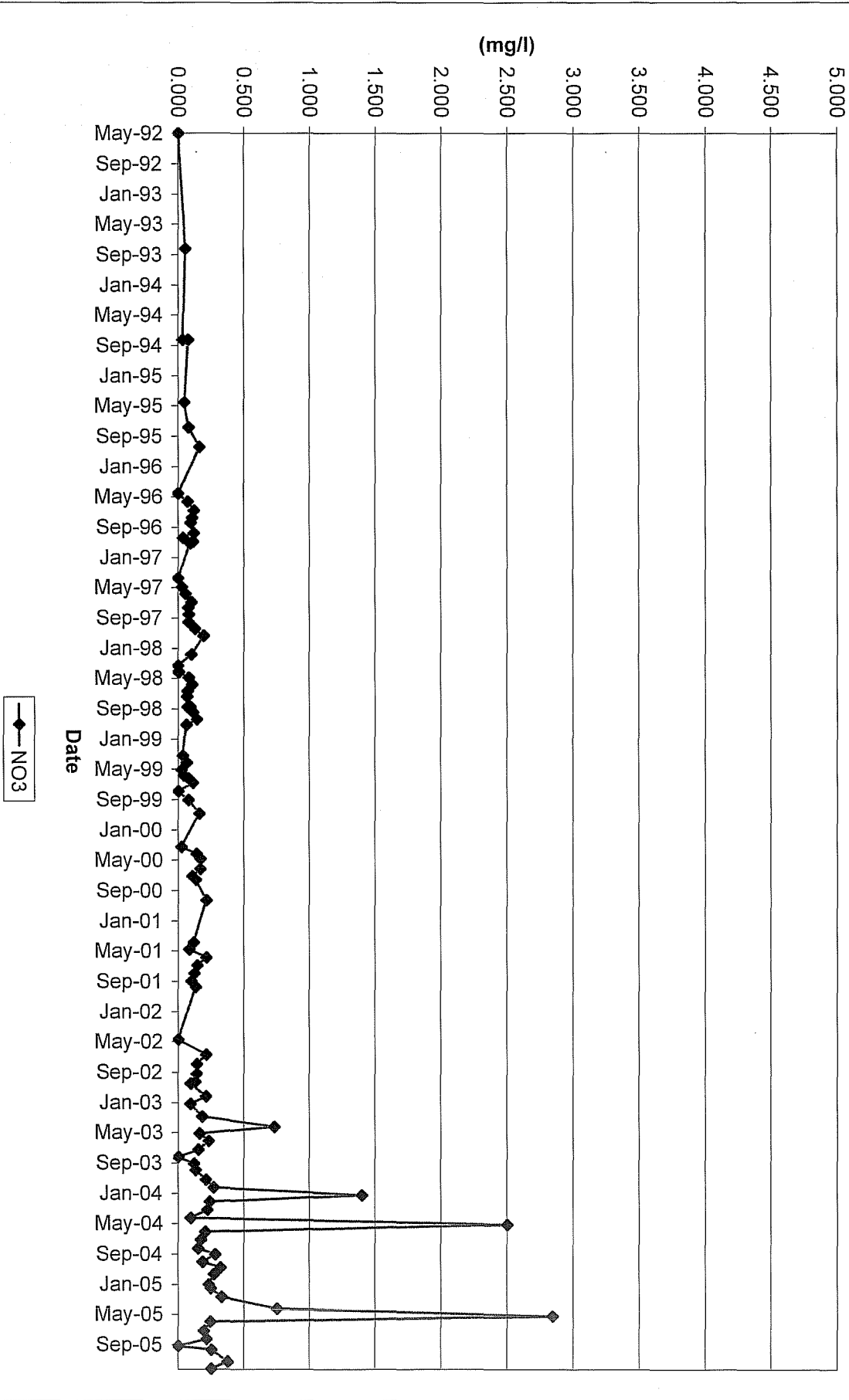
BC-01: Laura Creek 50m above Ditch Road



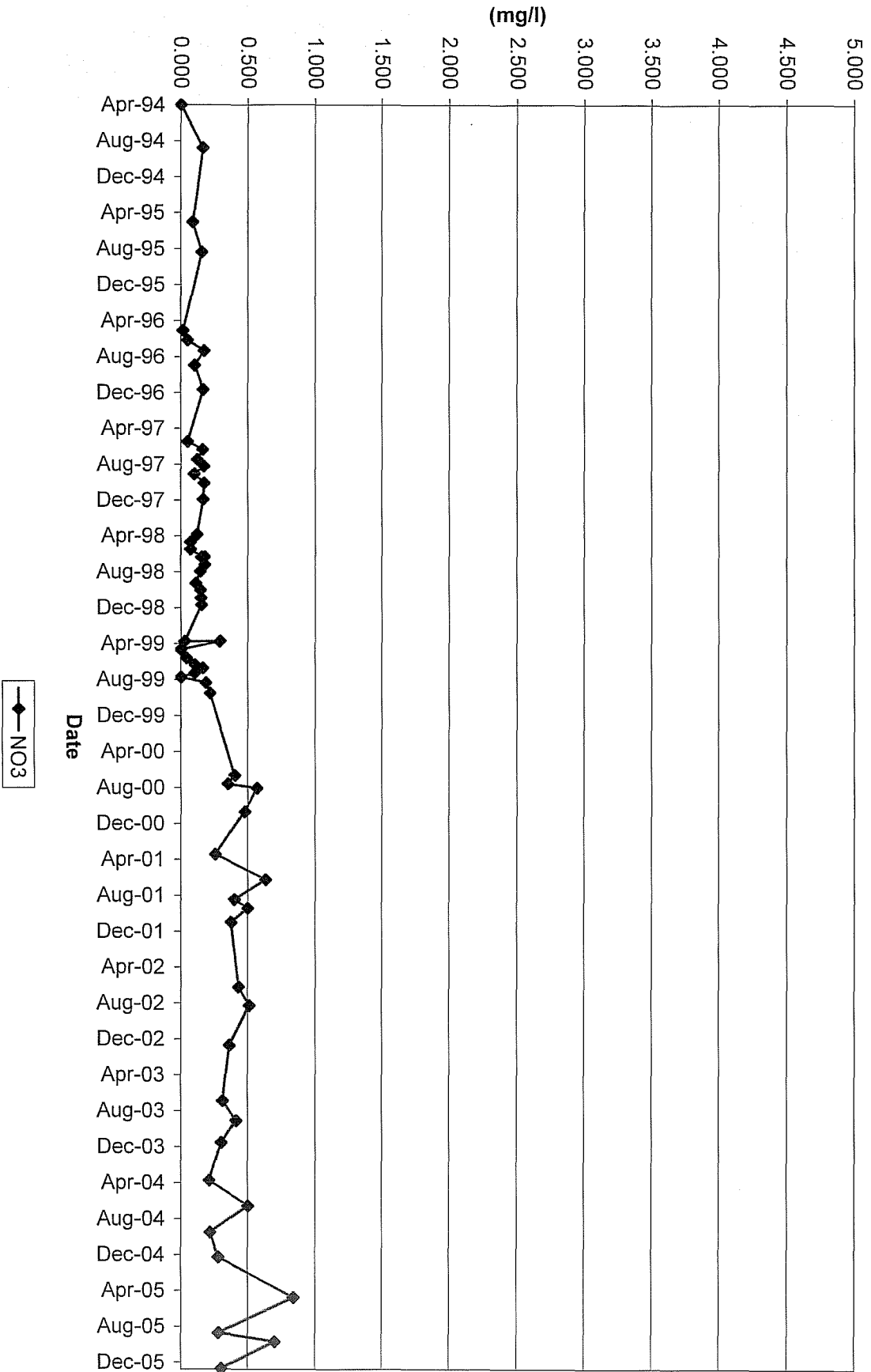
BC-02: Carolyn Creek u/s from Laura Creek



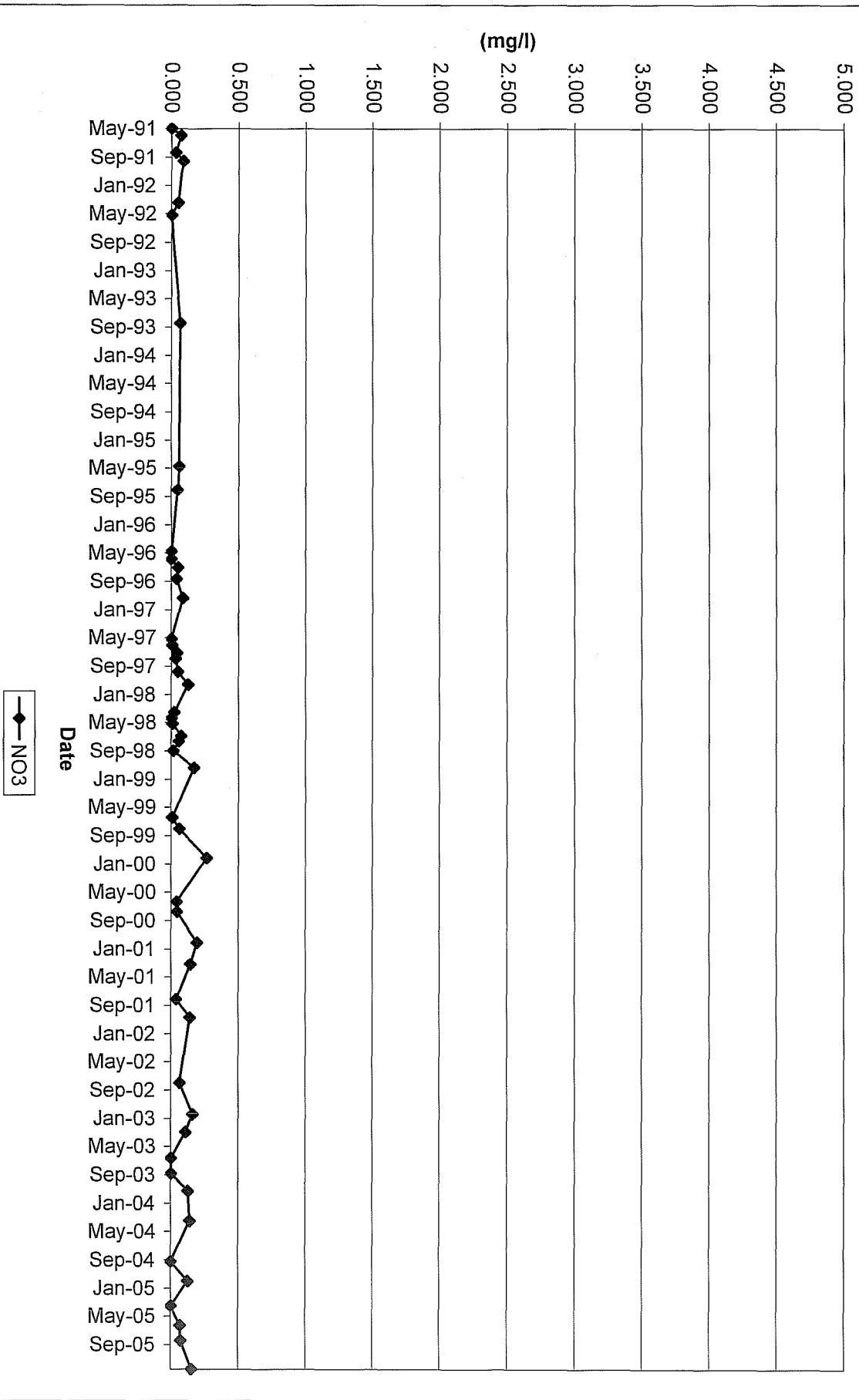
BC-03: Laura Creek Above Carolyn Creek



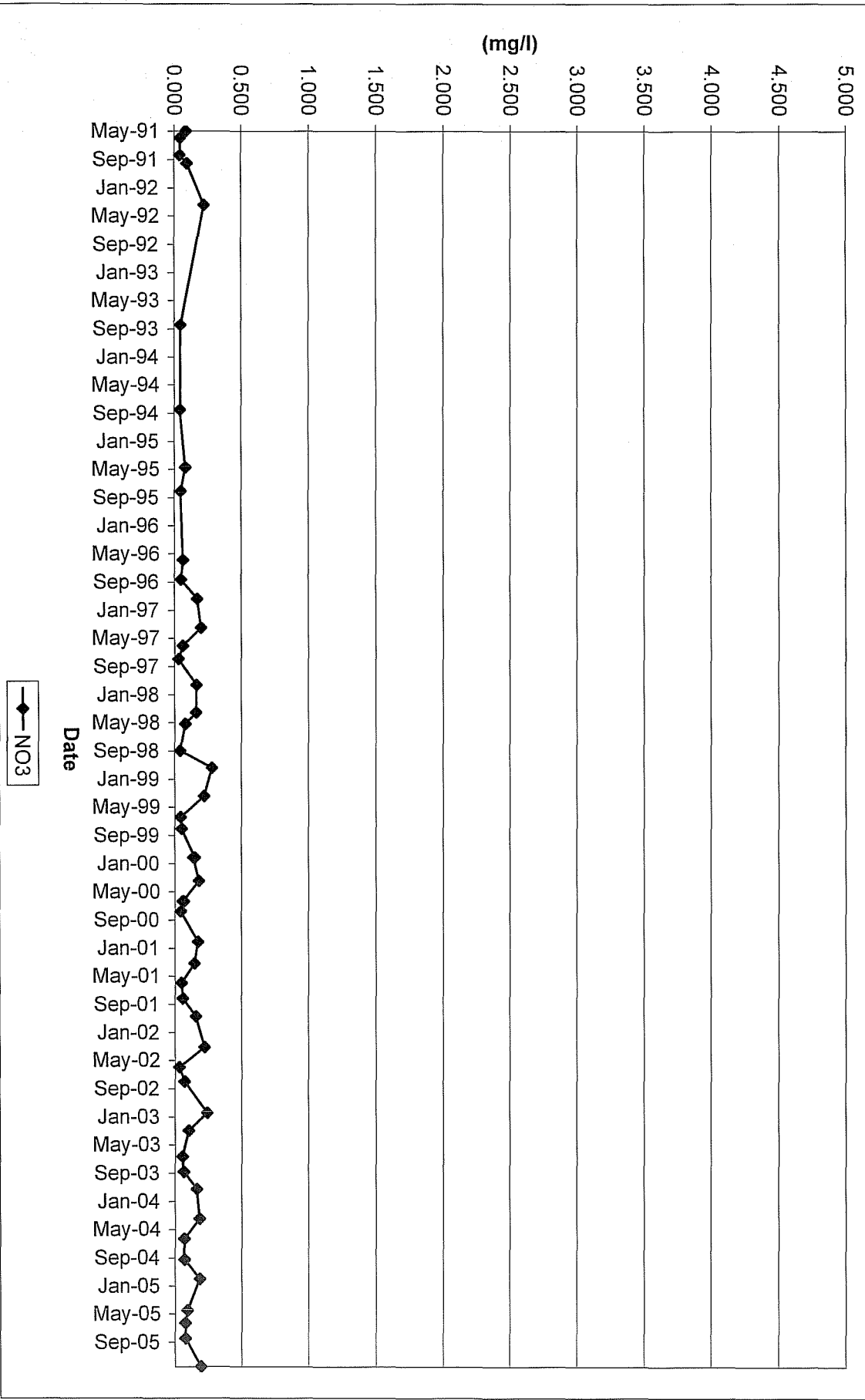
BC-04: Lucky Creek



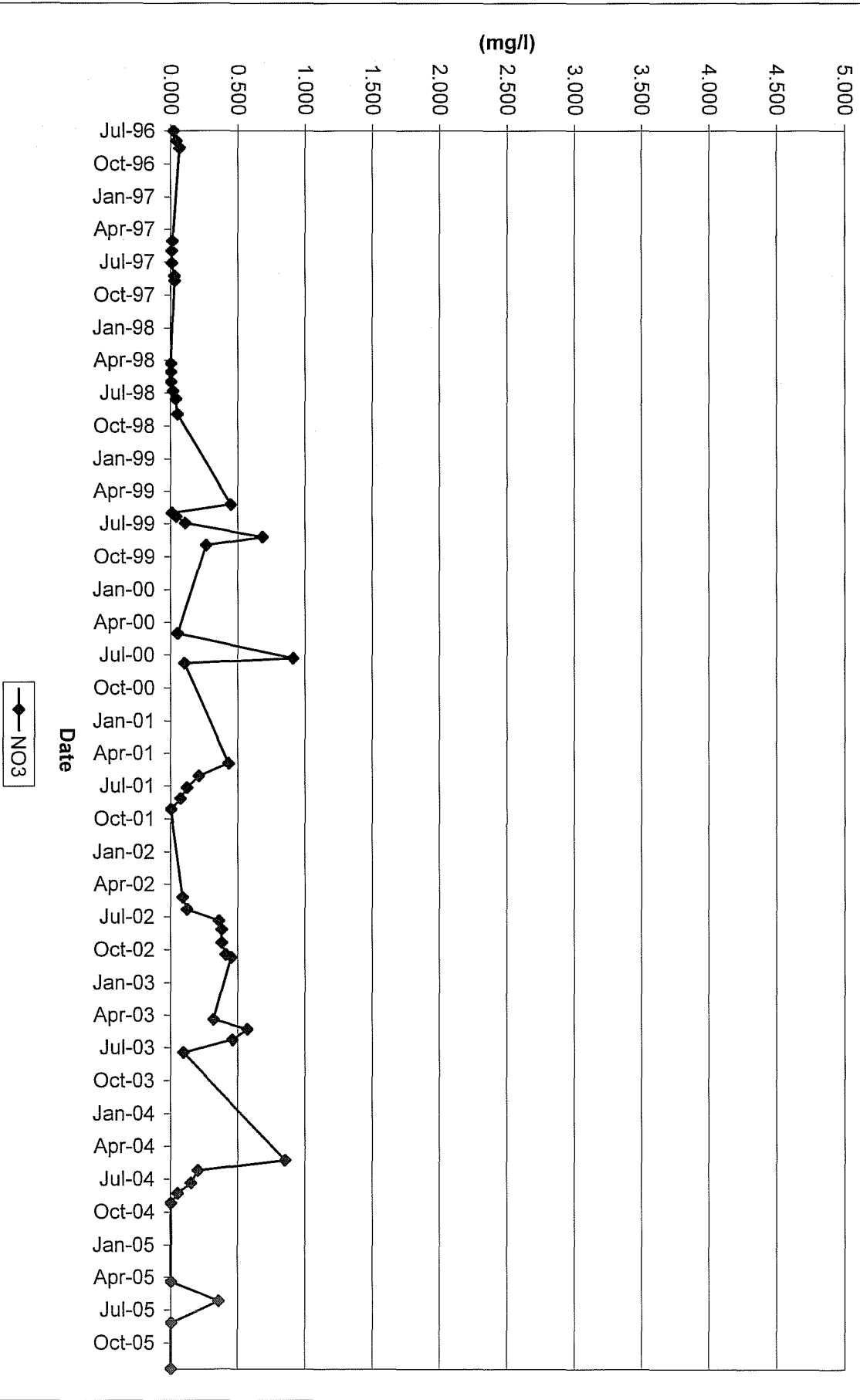
BC-05: Pacific Creek above Confluence with Lee Creek



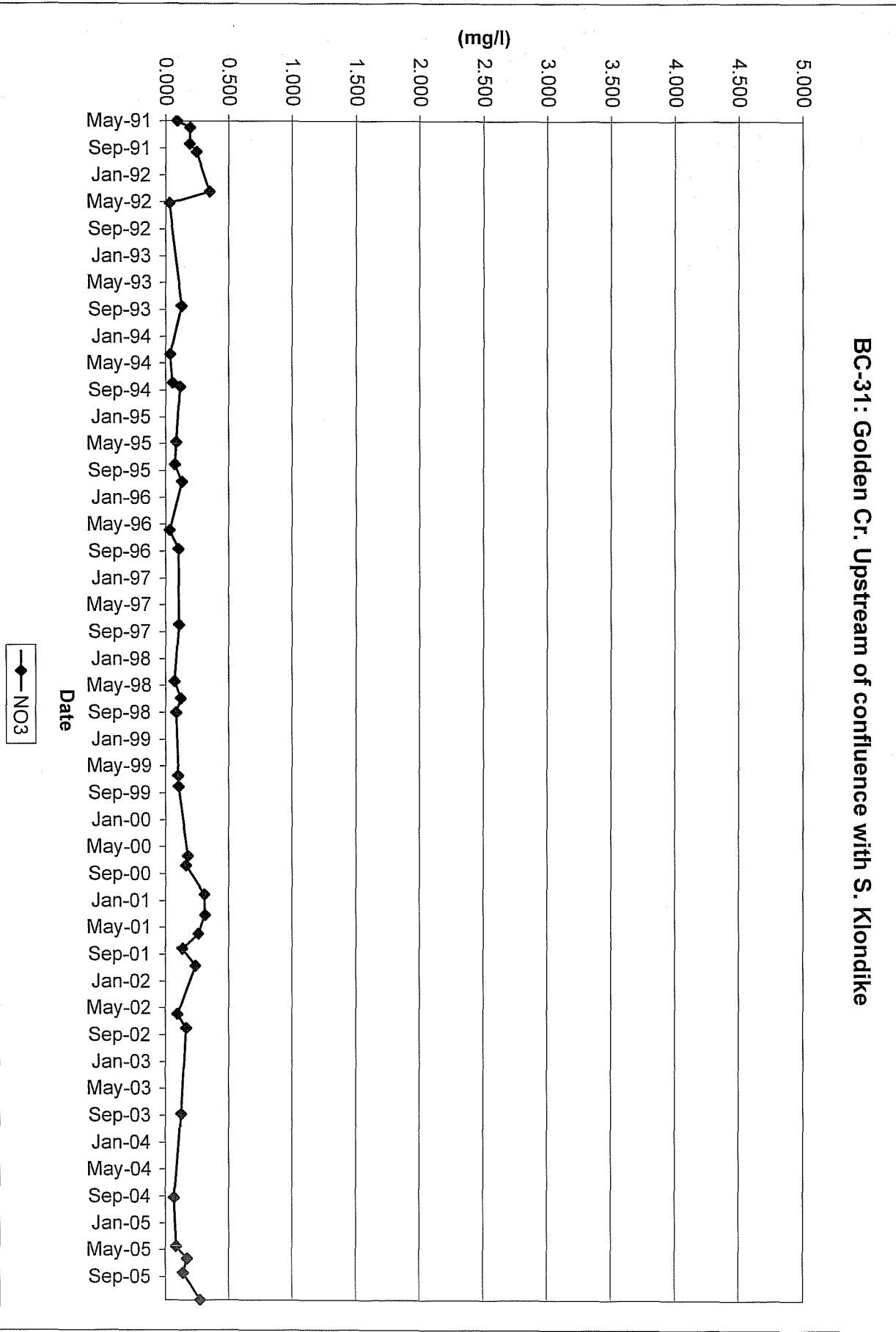
BC-06: S. Klondike d/s from confluence w/Lee Creek



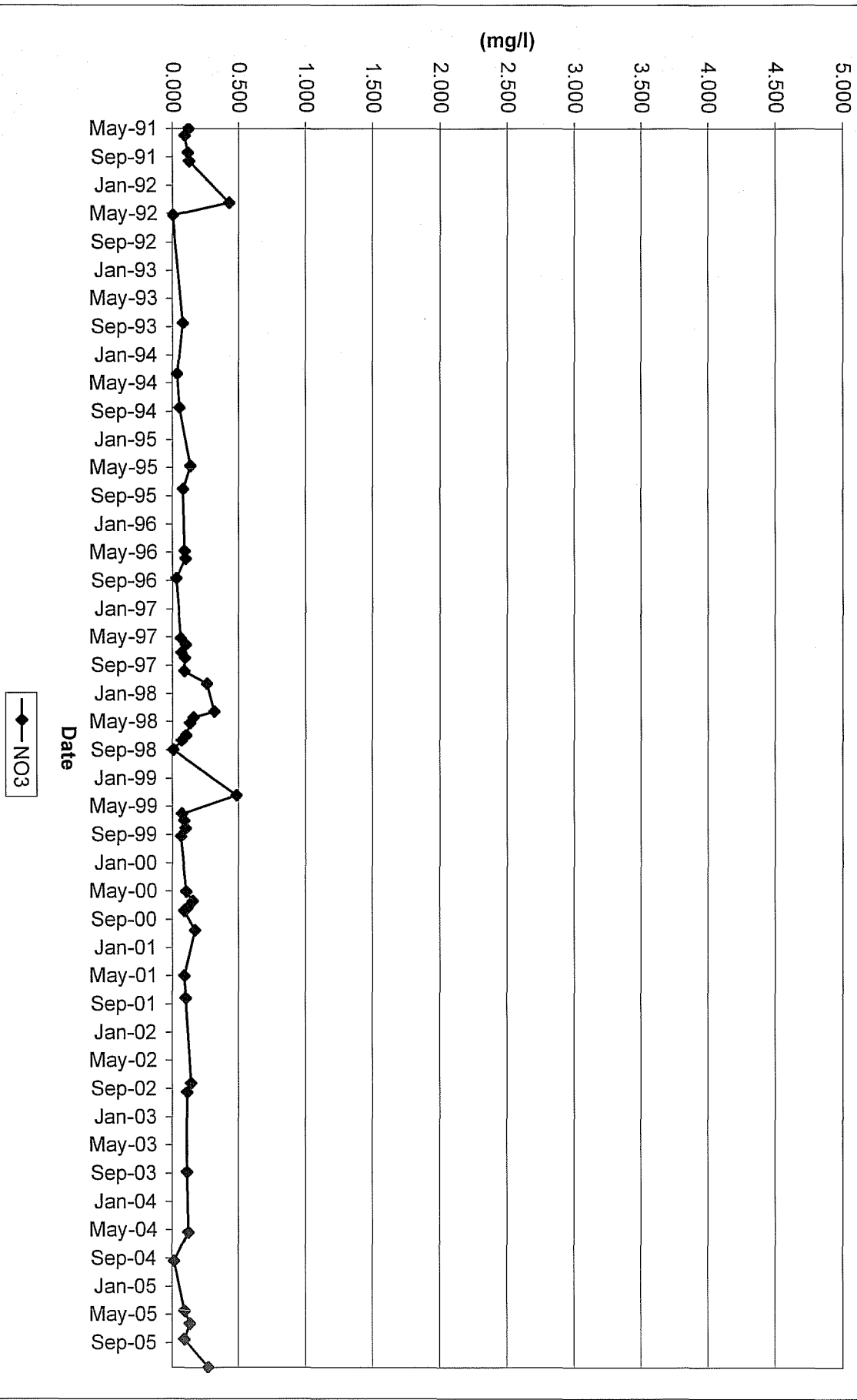
BC-16: Pacific Gulch 300m above Laura Creek



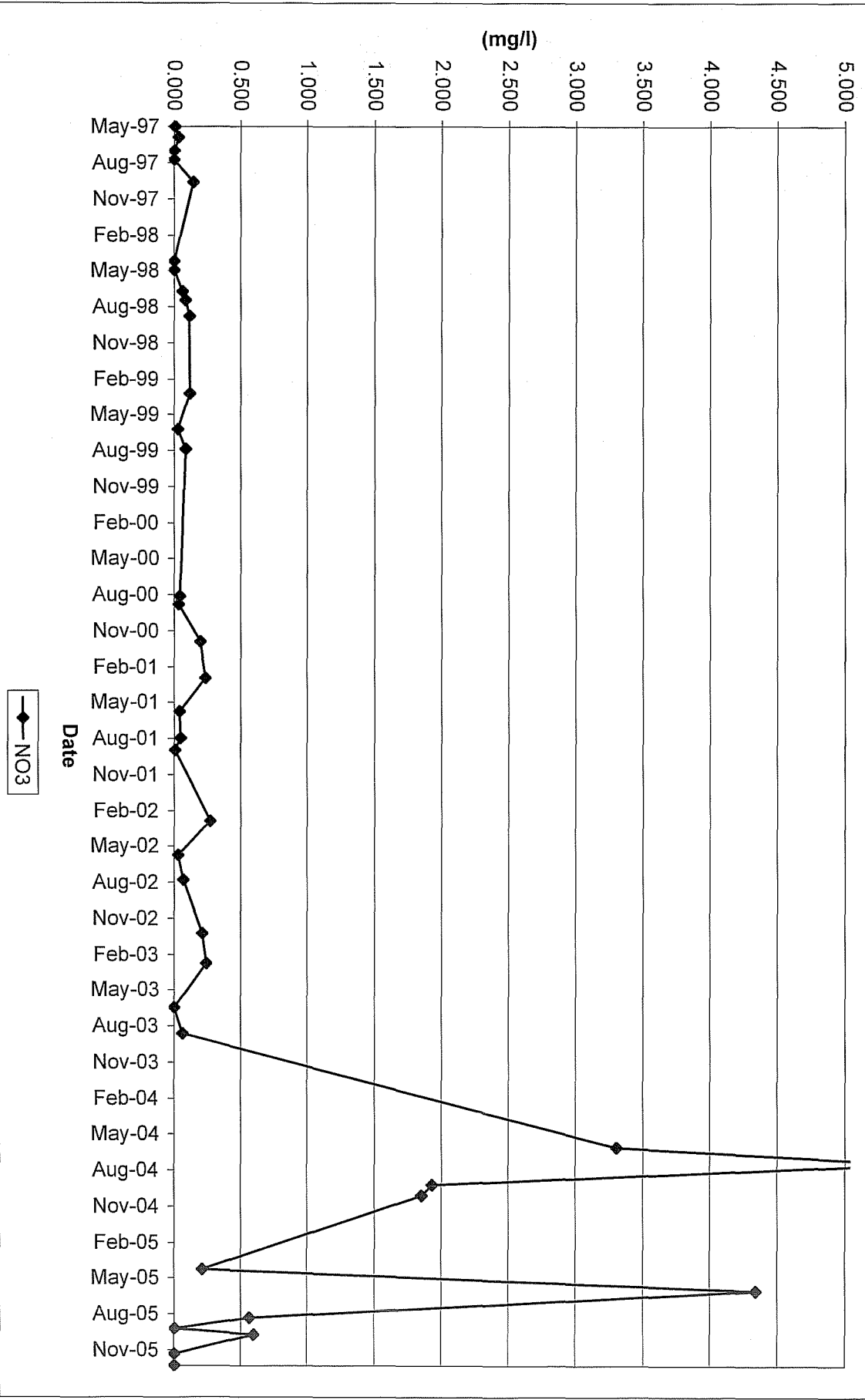
BC-31: Golden Cr. Upstream of confluence with S. Klondike



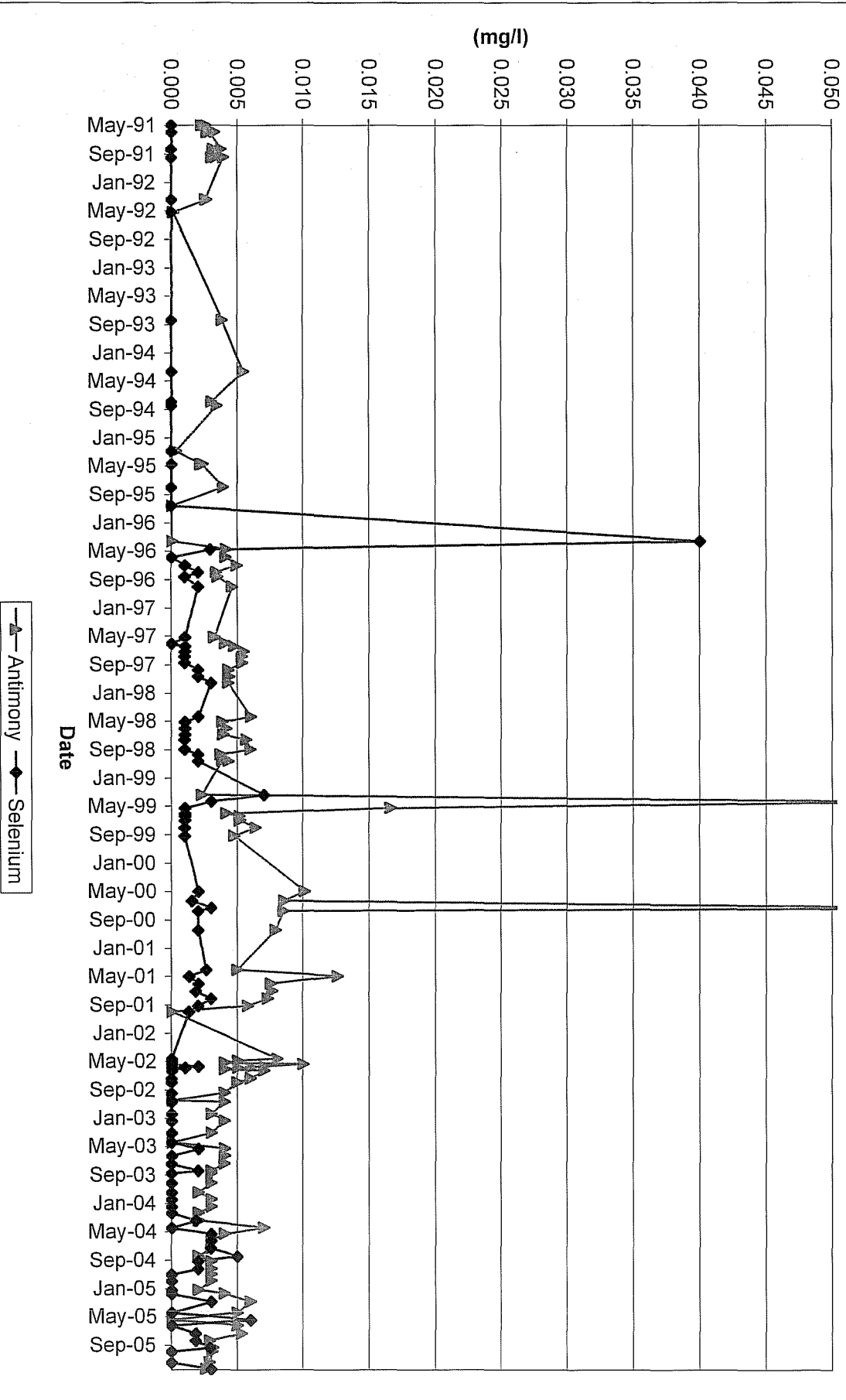
BC-34: Lee Creek At Ditch Road



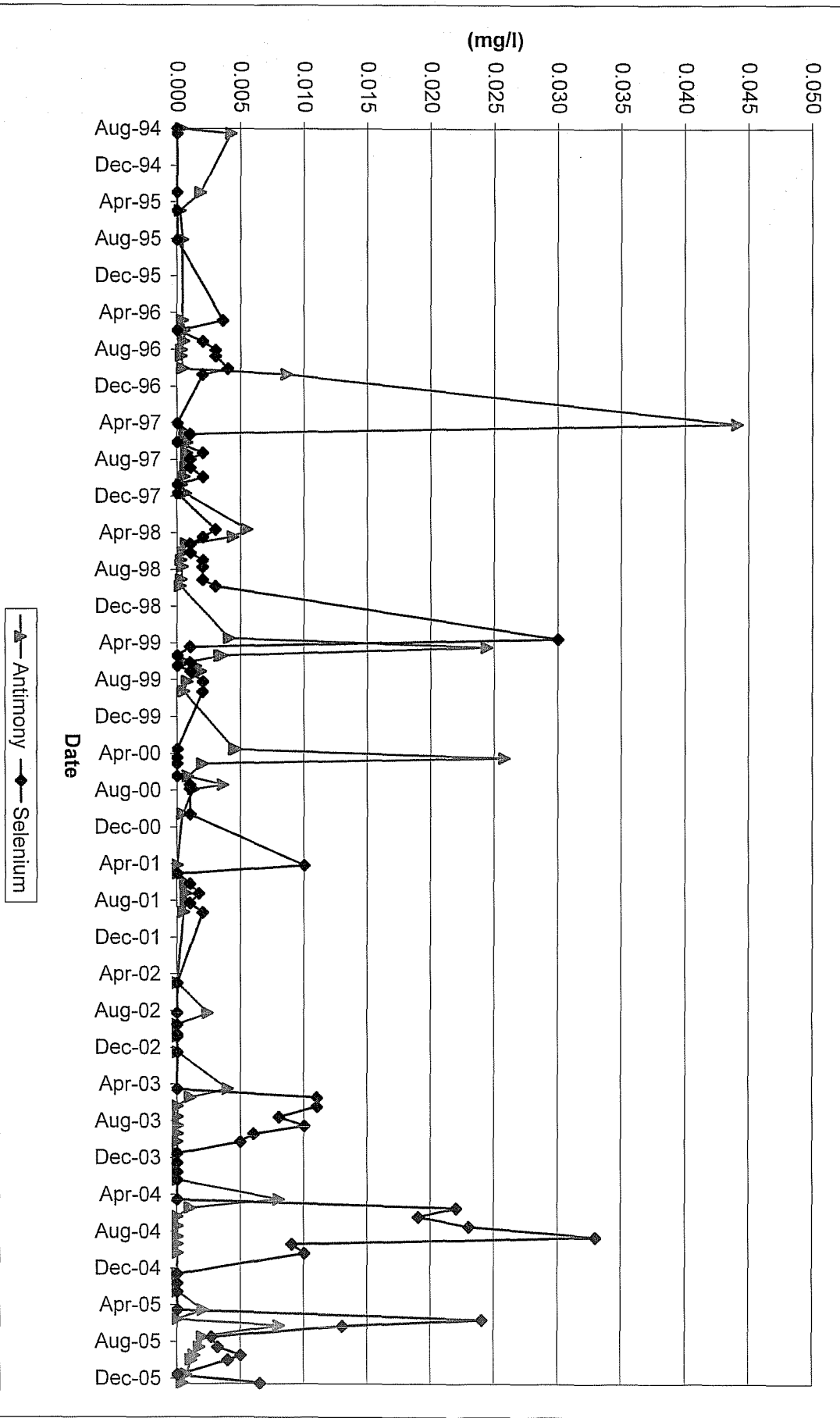
BC-39: Laura Creek at confluence with S. Klondike



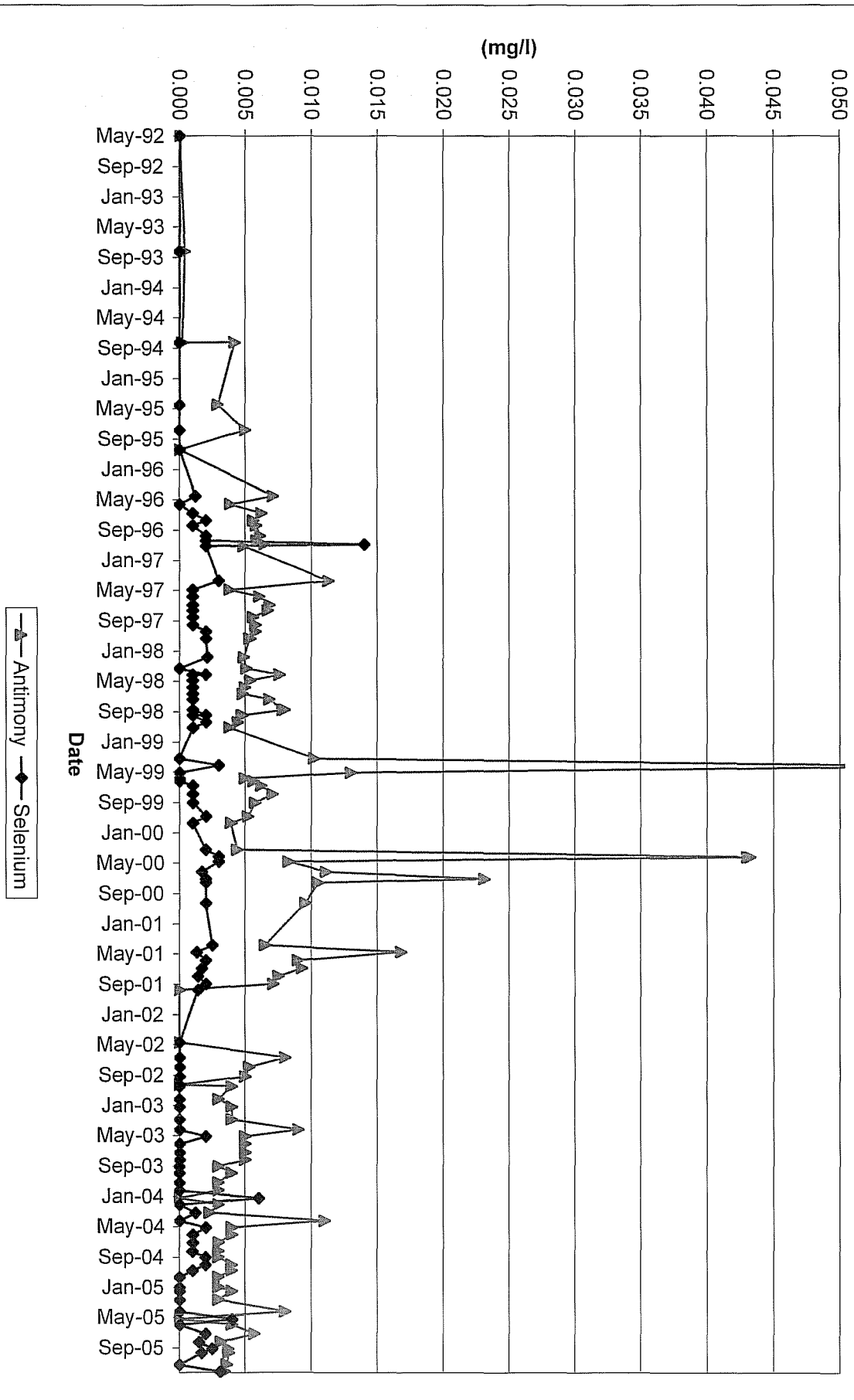
BC-01: Laura Creek 50m above Ditch Road



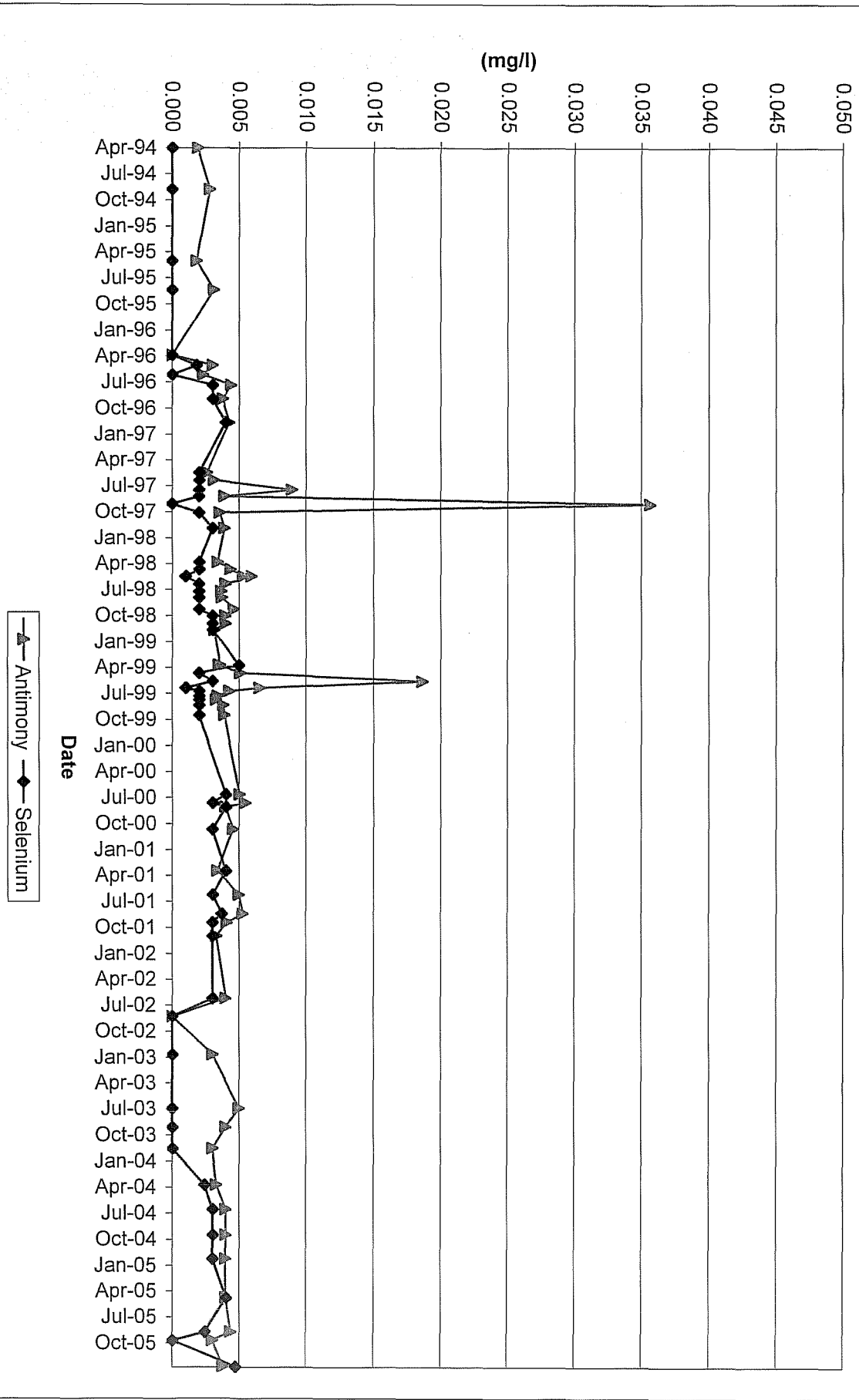
BC-02: Carolyn Creek u/s from Laura Creek



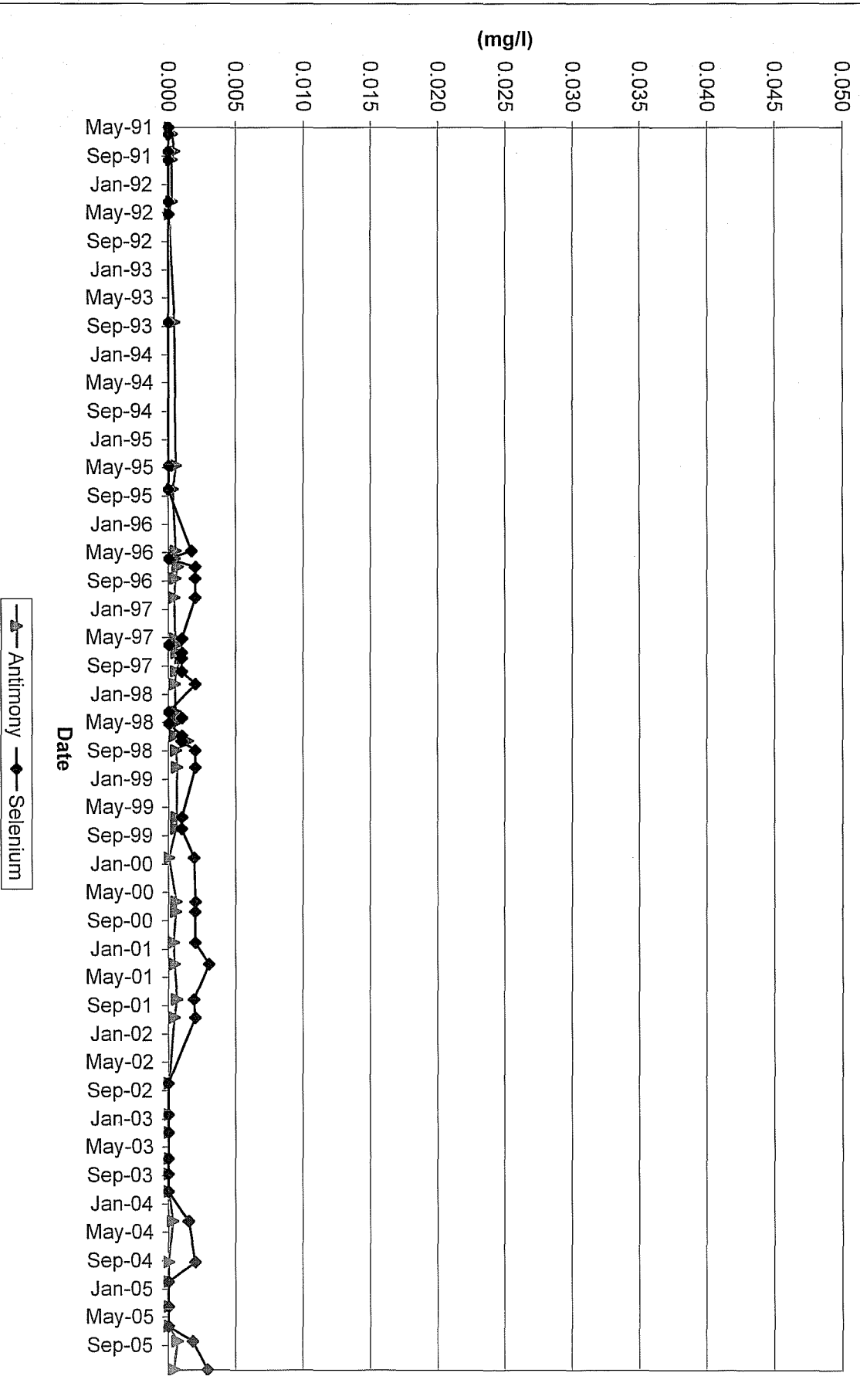
BC-03: Laura Creek Above Carolyn Creek



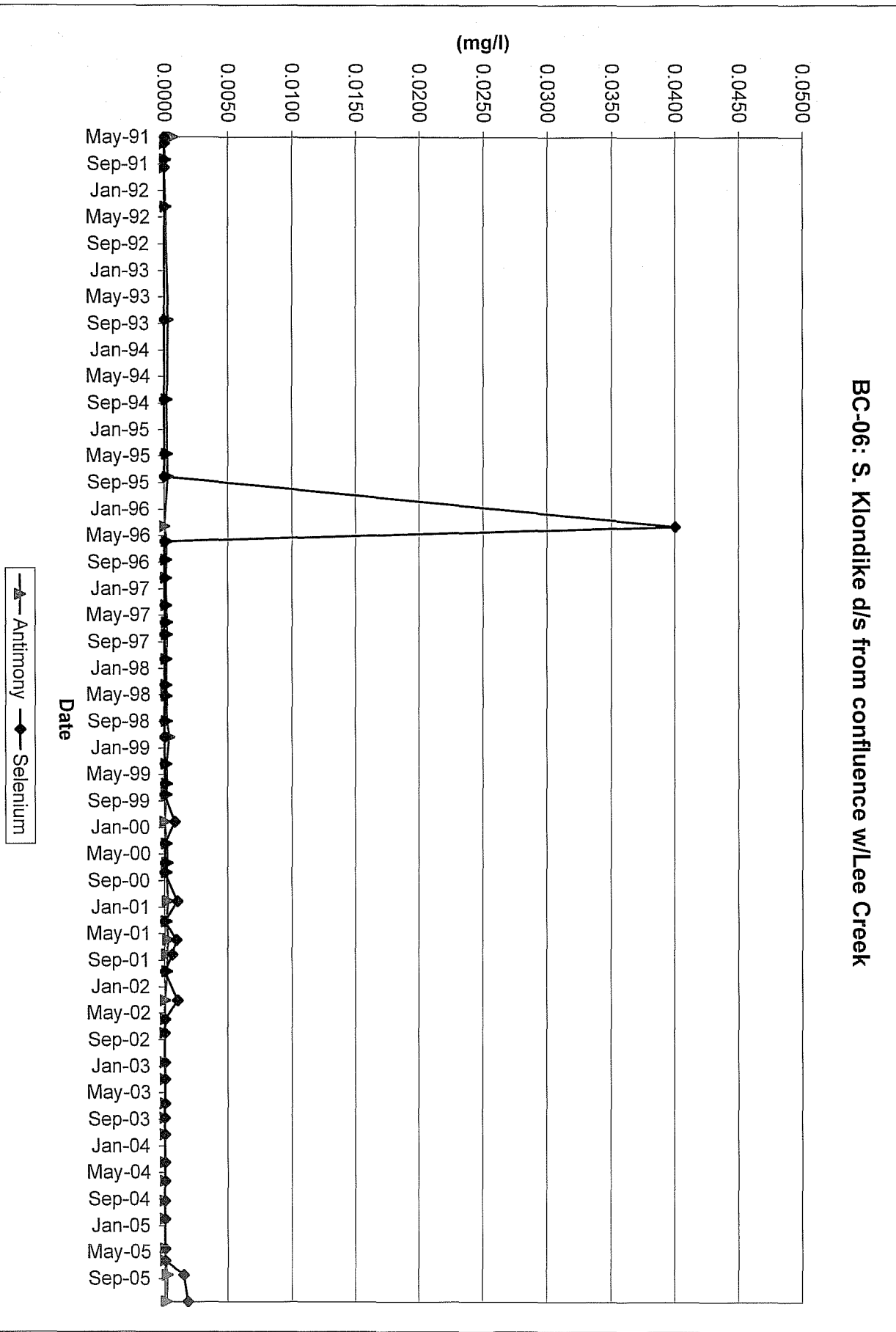
BC-04: Lucky Creek



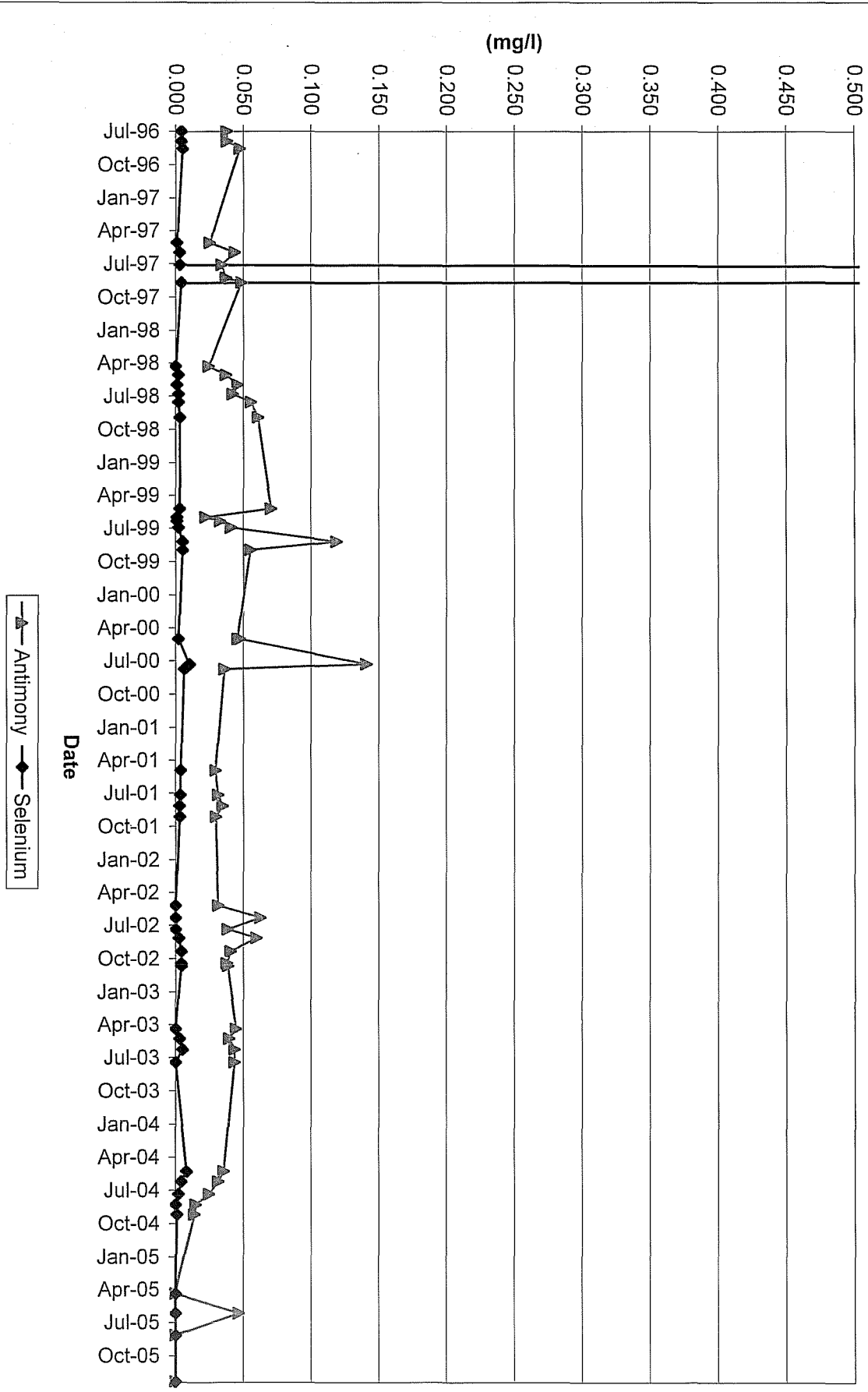
BC-05: Pacific Creek above Confluence with Lee Creek



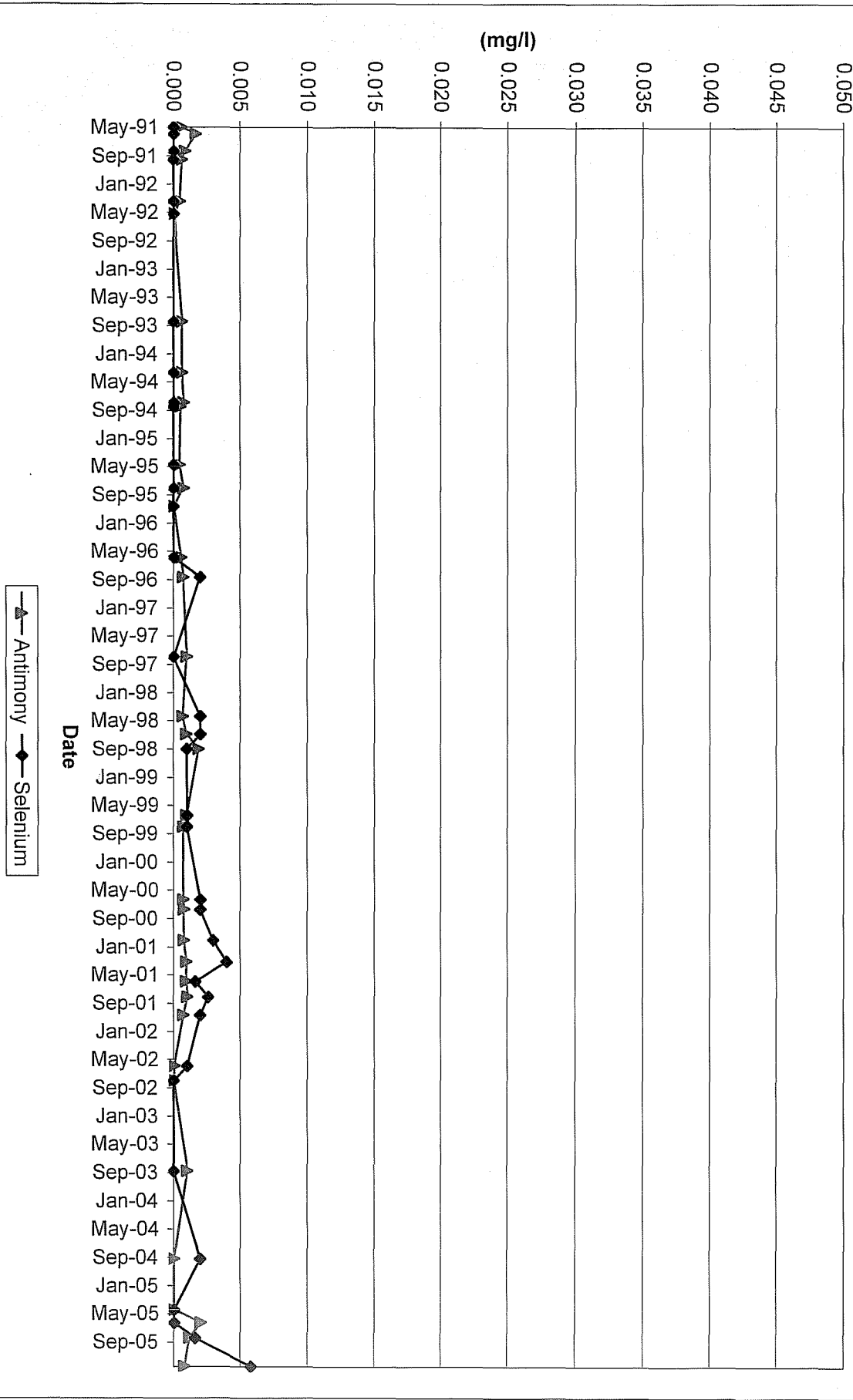
BC-06: S. Klondike d/s from confluence w/Lee Creek



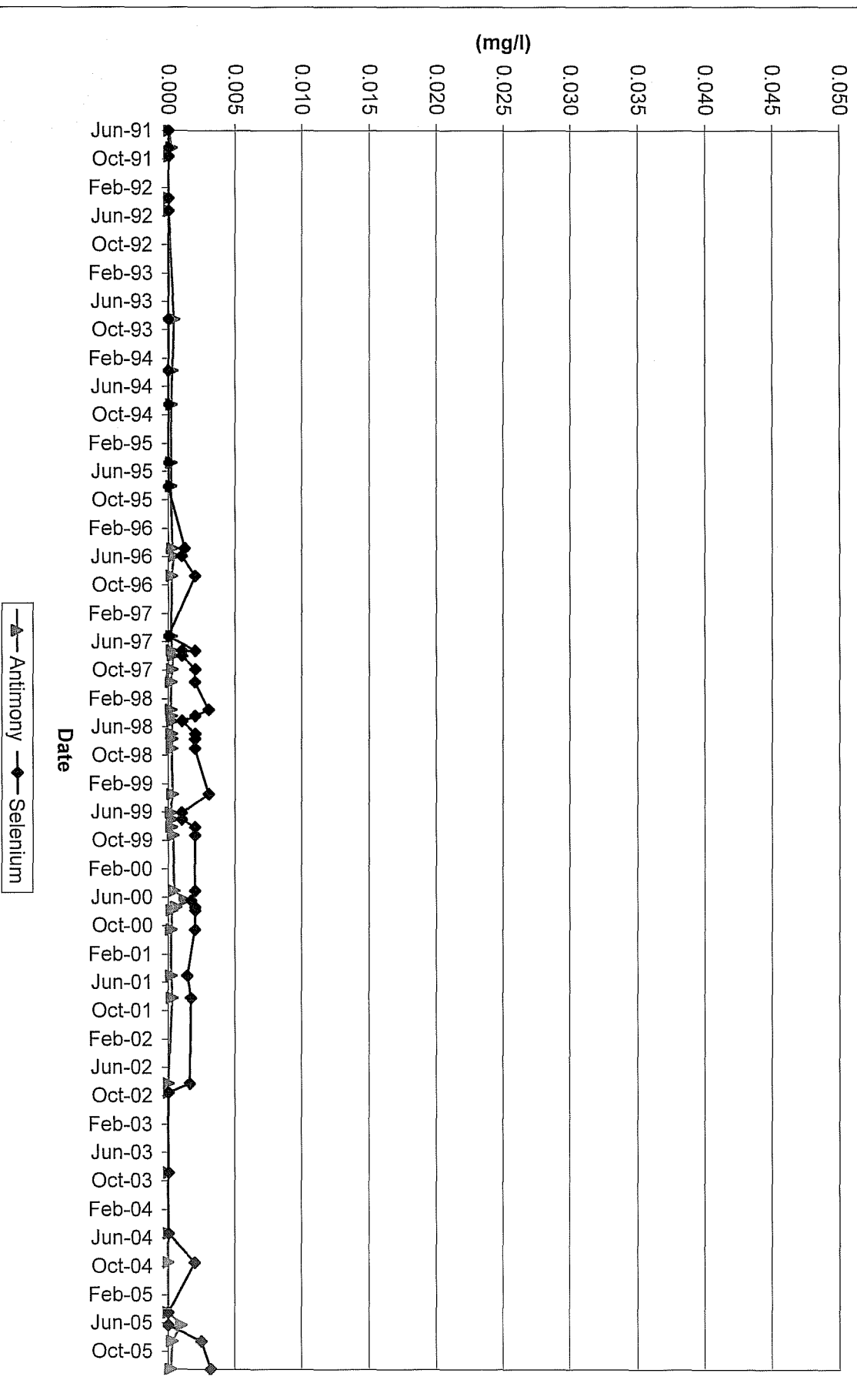
BC-16: Pacific Gulch 300m above Laura Creek



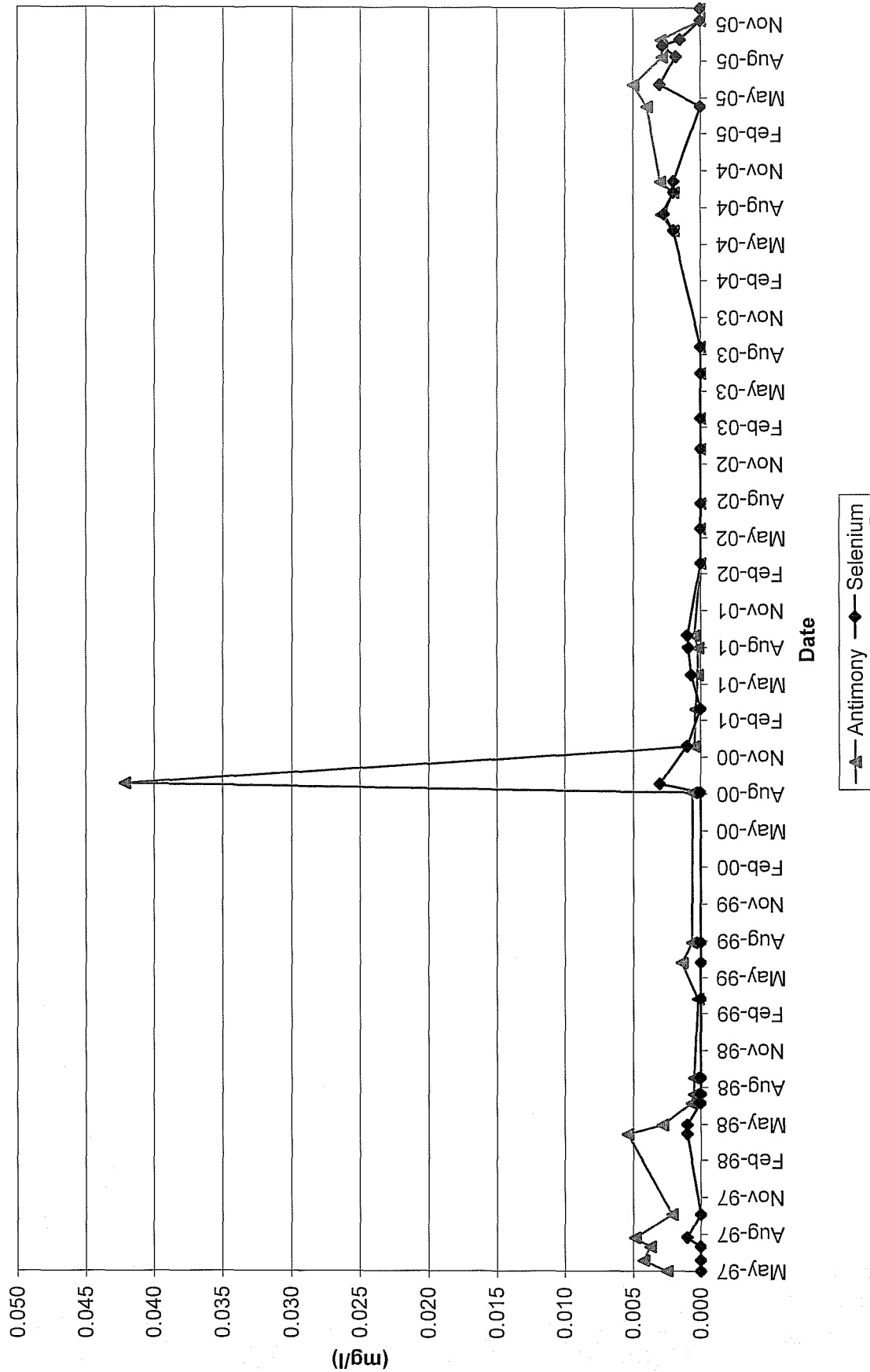
BC-31: Golden Cr. Upstream of confluence with S. Klondike



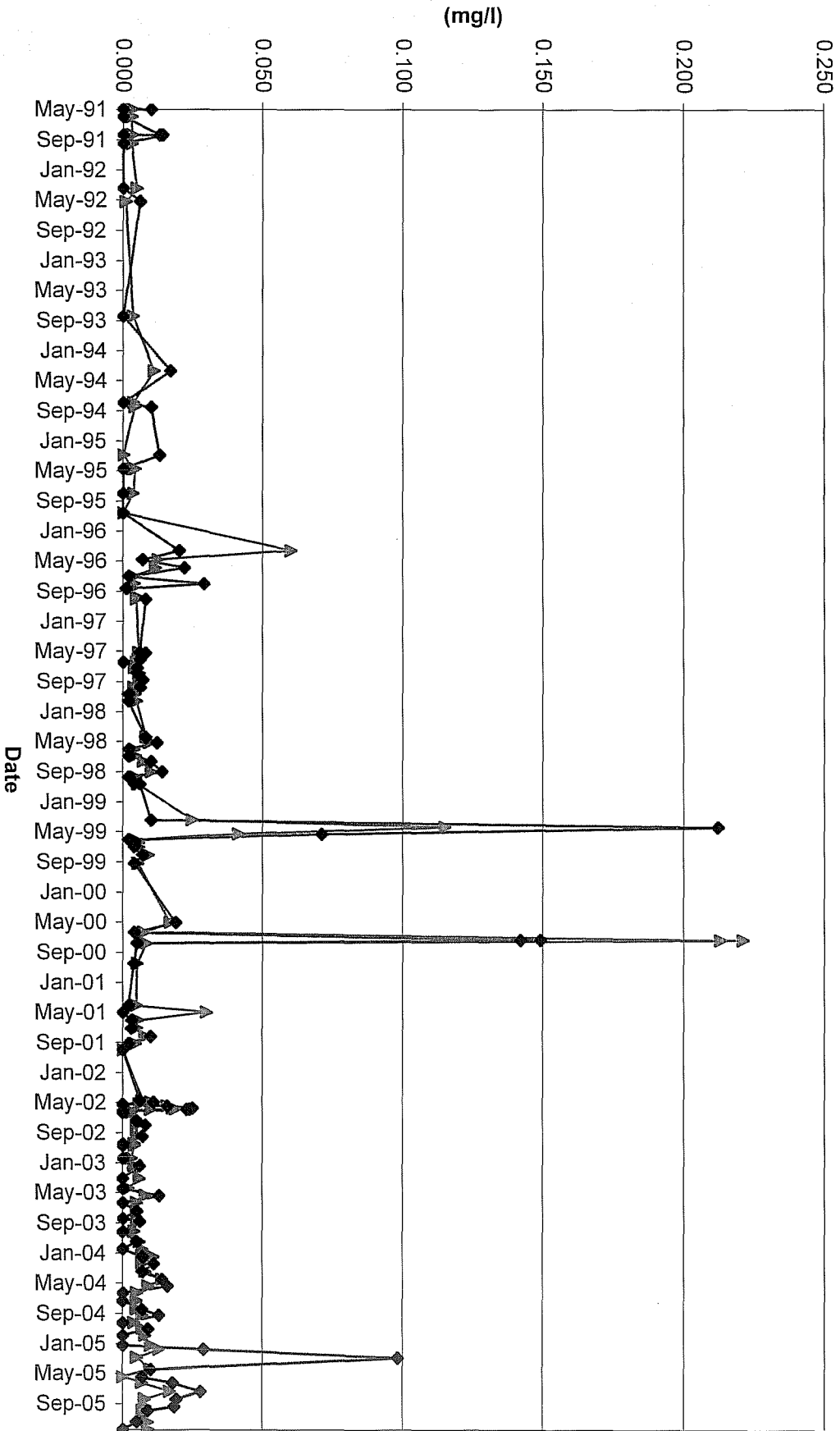
BC-34: Lee Creek At Ditch Road



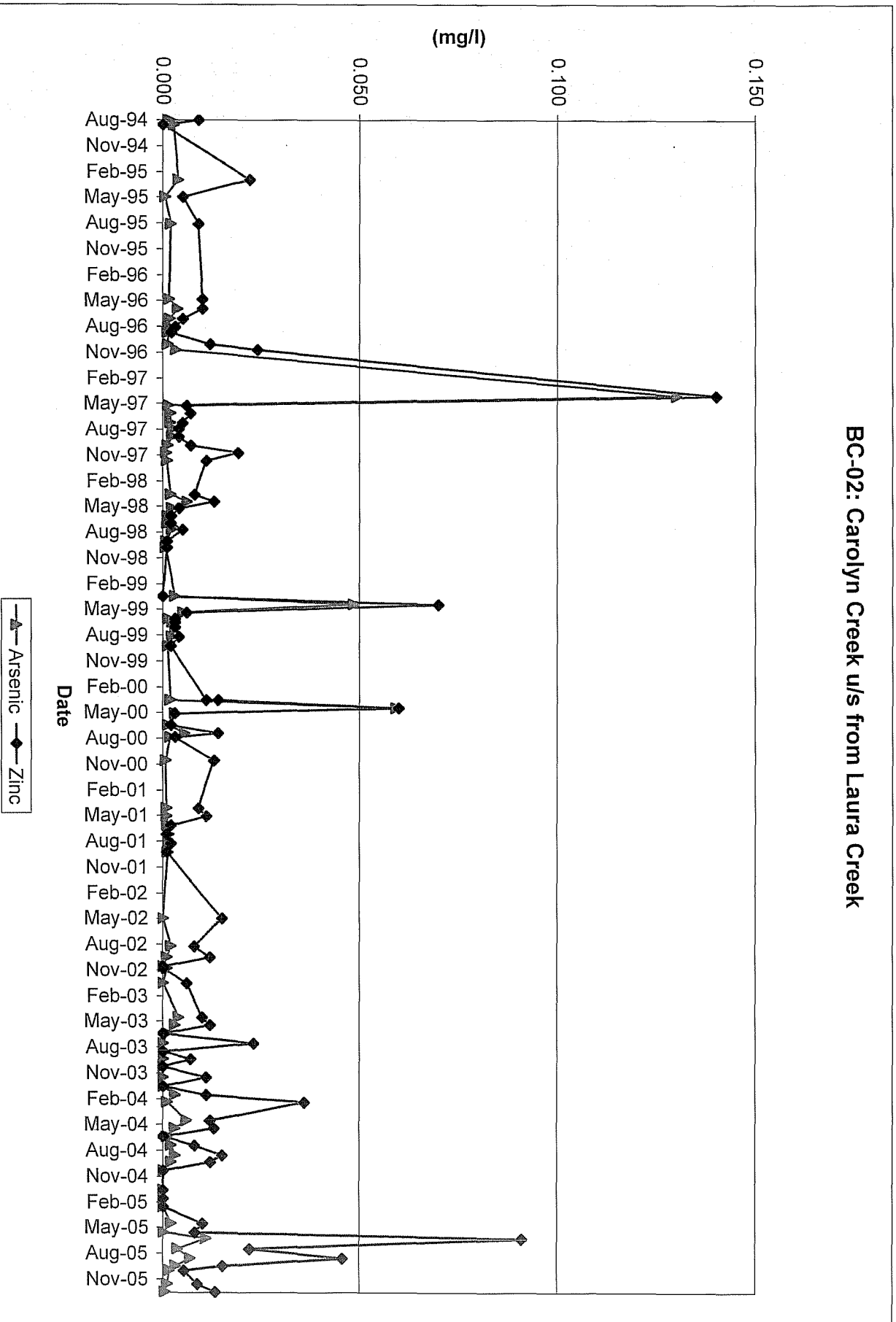
BC-39: Laura Creek at confluence with S. Klondike



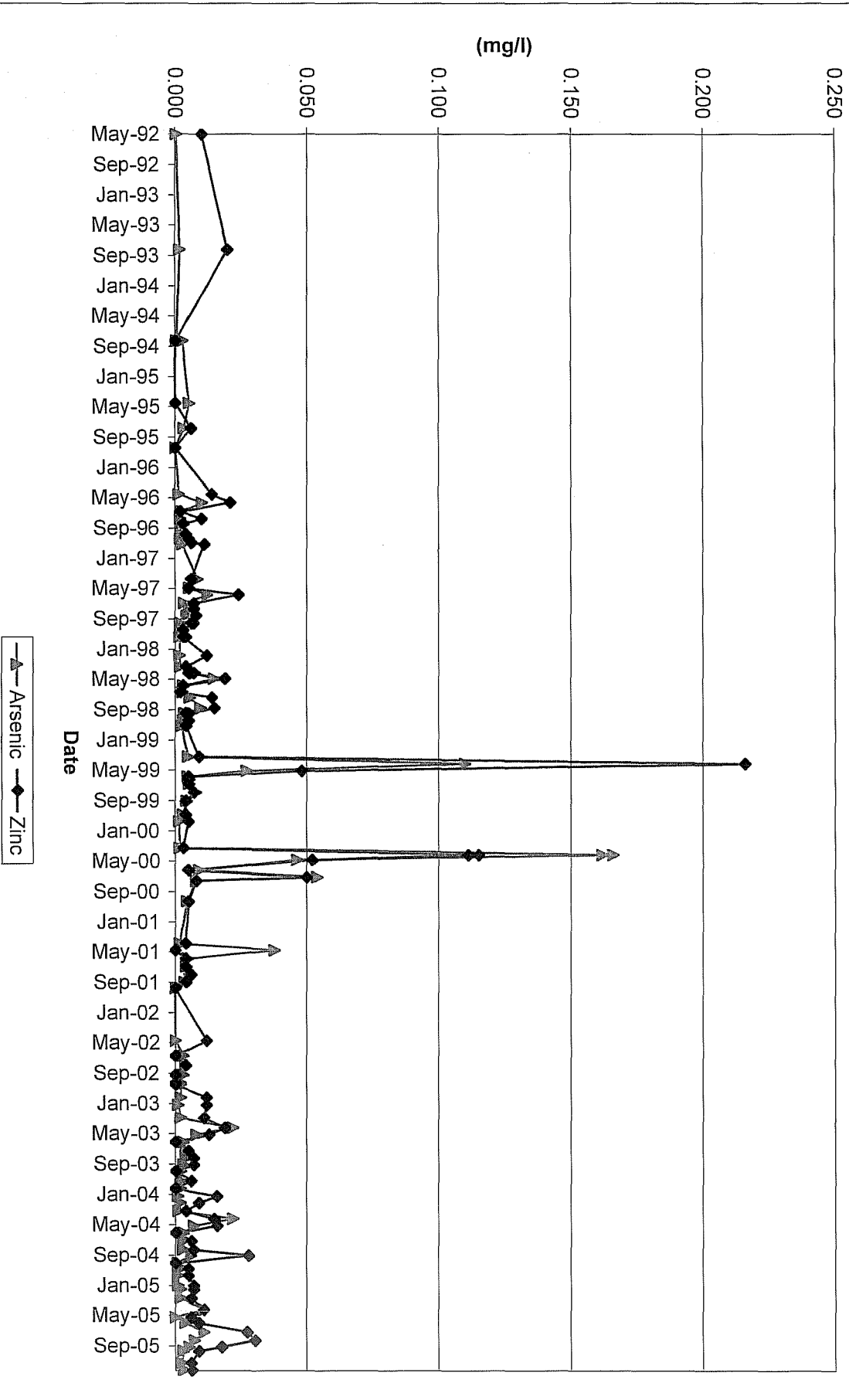
BC-01: Laura Creek 50m above Ditch Road



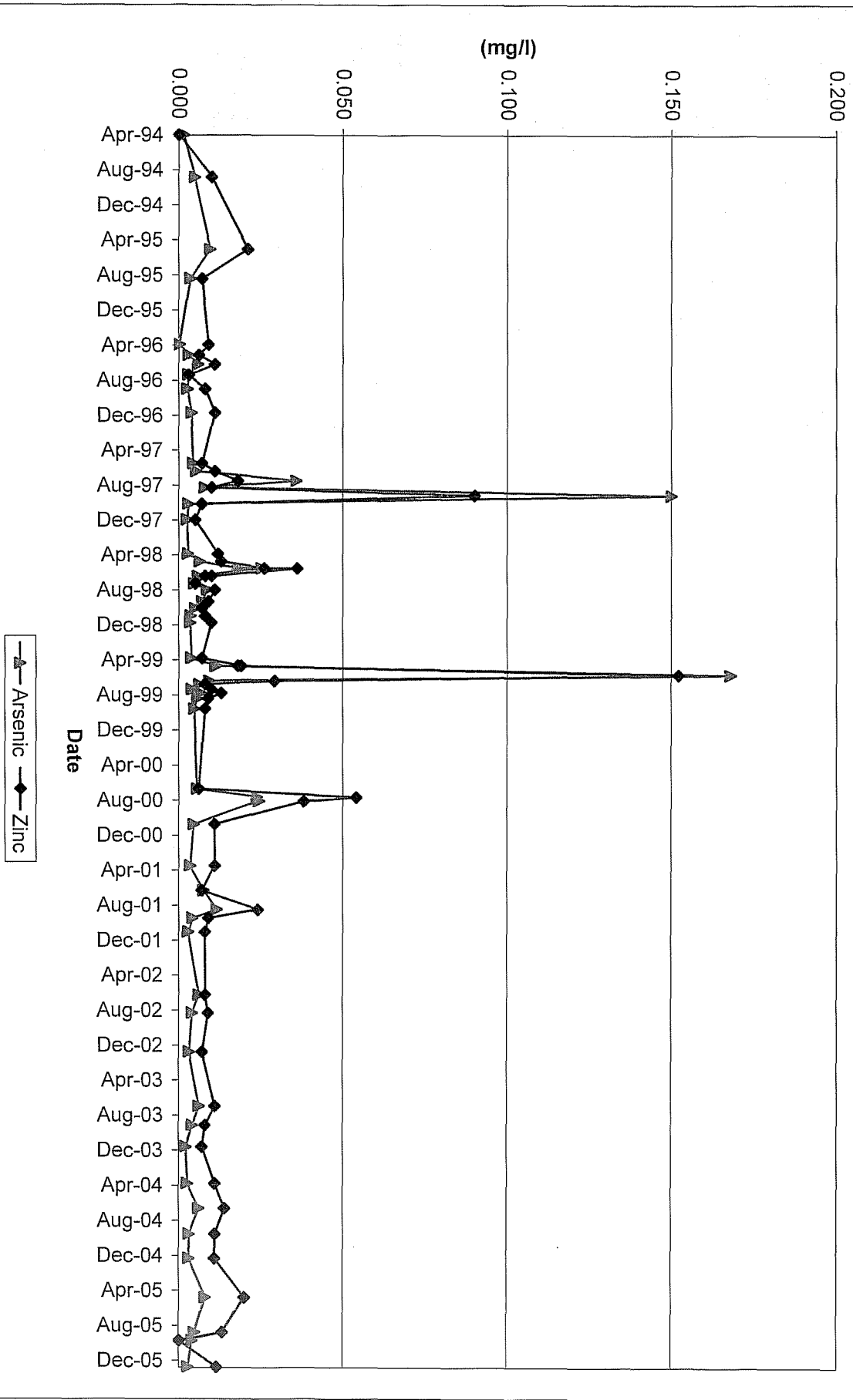
BC-02: Carolyn Creek u/s from Laura Creek



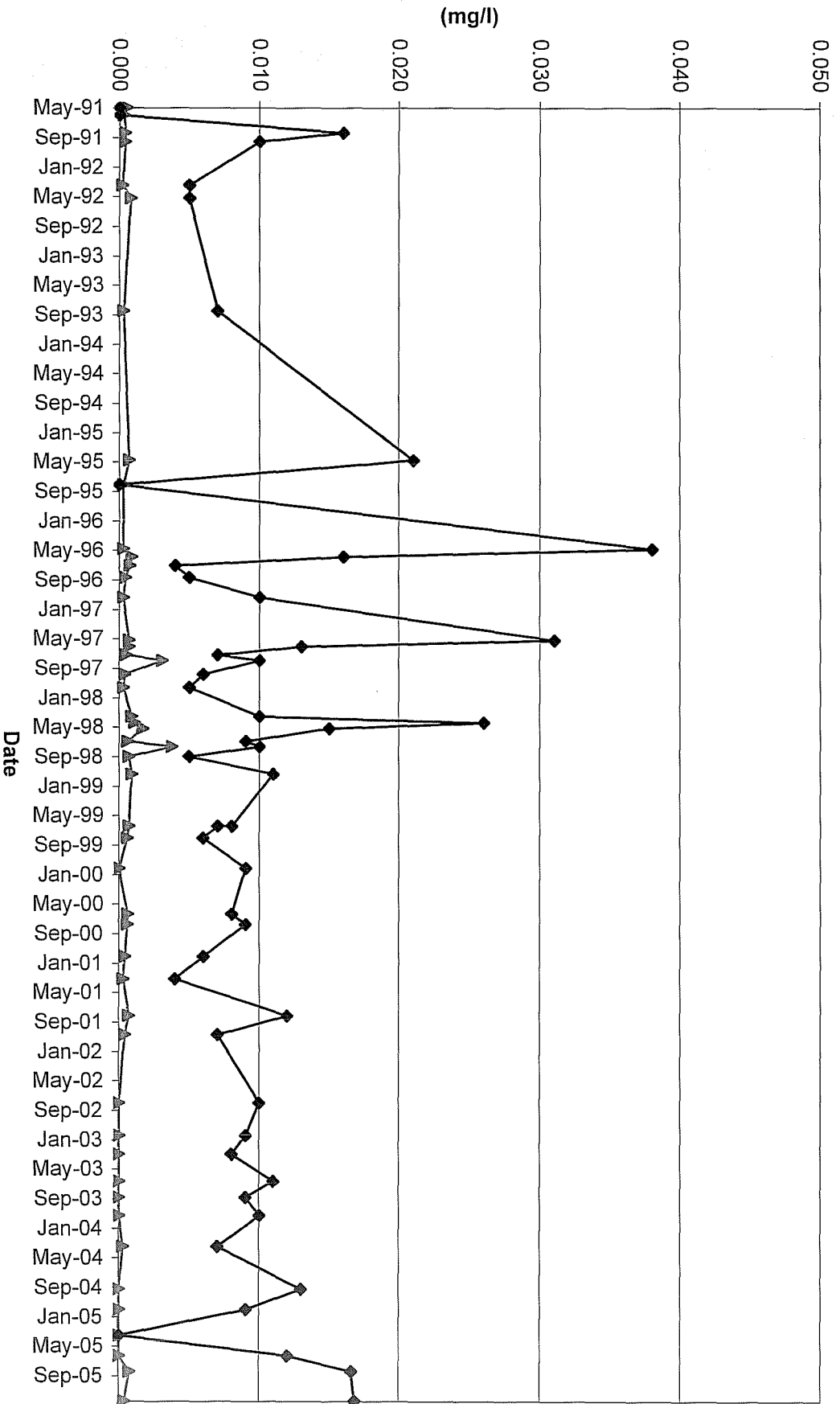
BC-03: Laura Creek Above Carolyn Creek



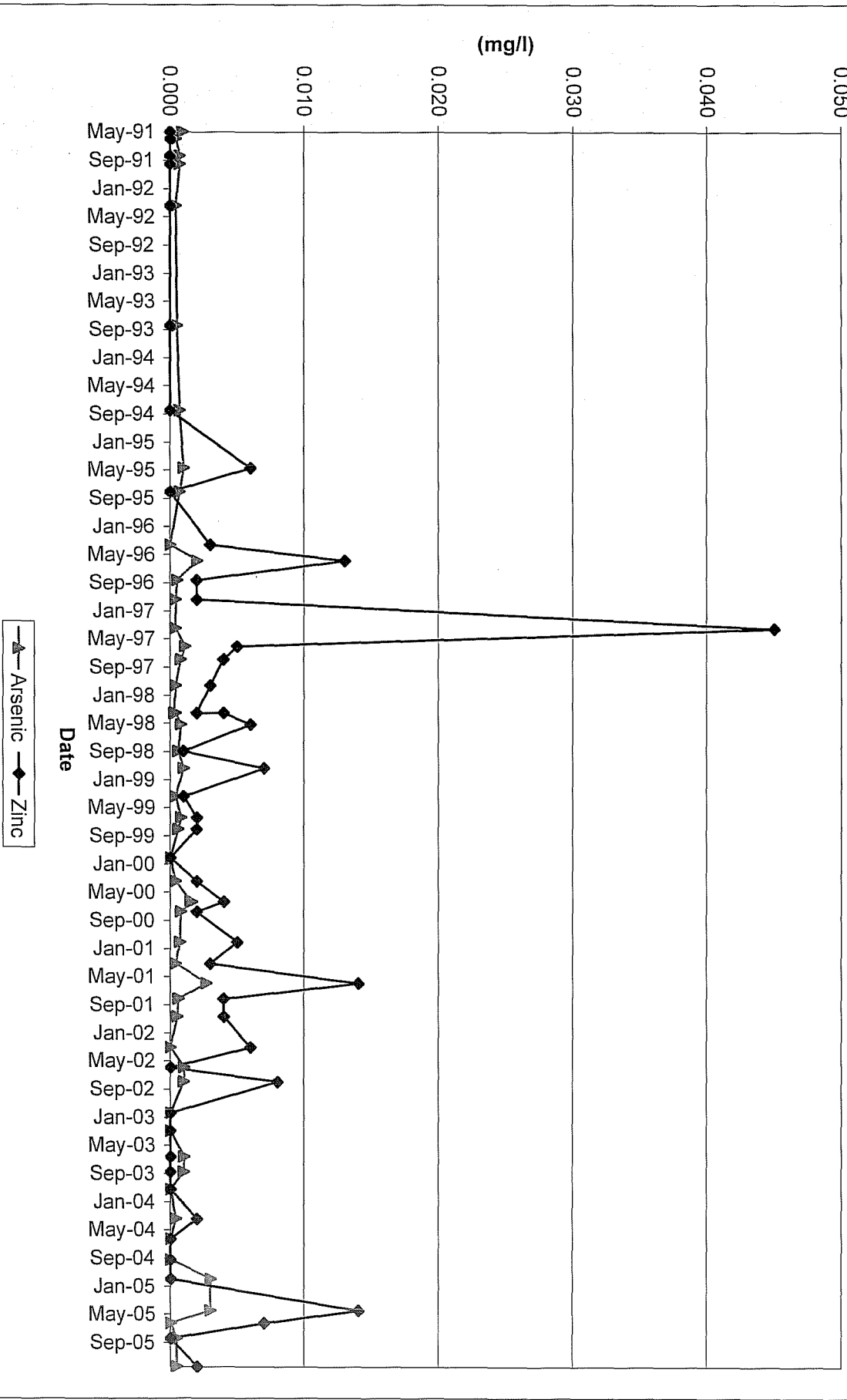
BC-04: Lucky Creek



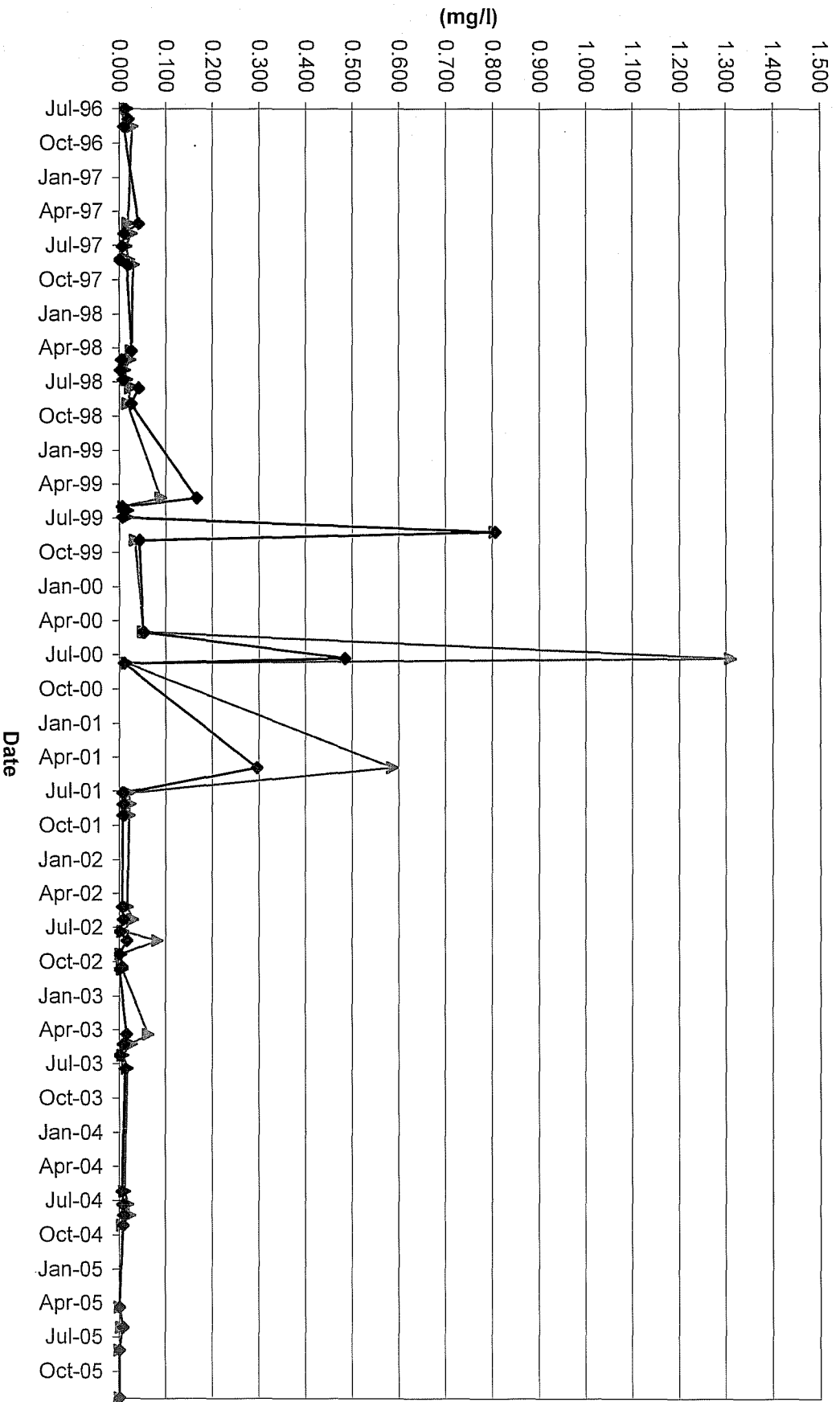
BC-05: Pacific Creek above Confluence with Lee Creek



BC-06: S. Klondike d/s from confluence w/Lee Creek

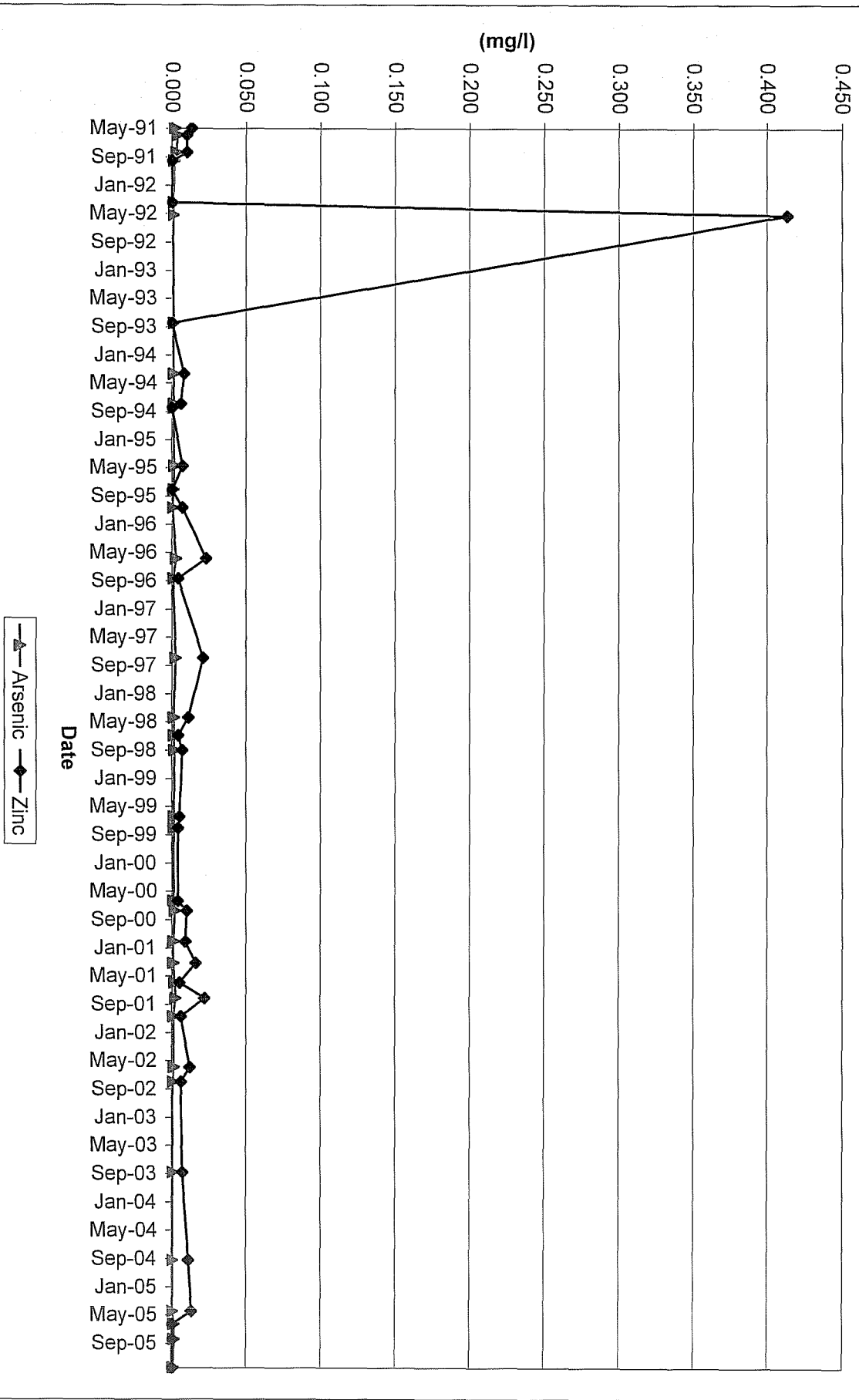


BC-16: Pacific Gulch 300m above Laura Creek

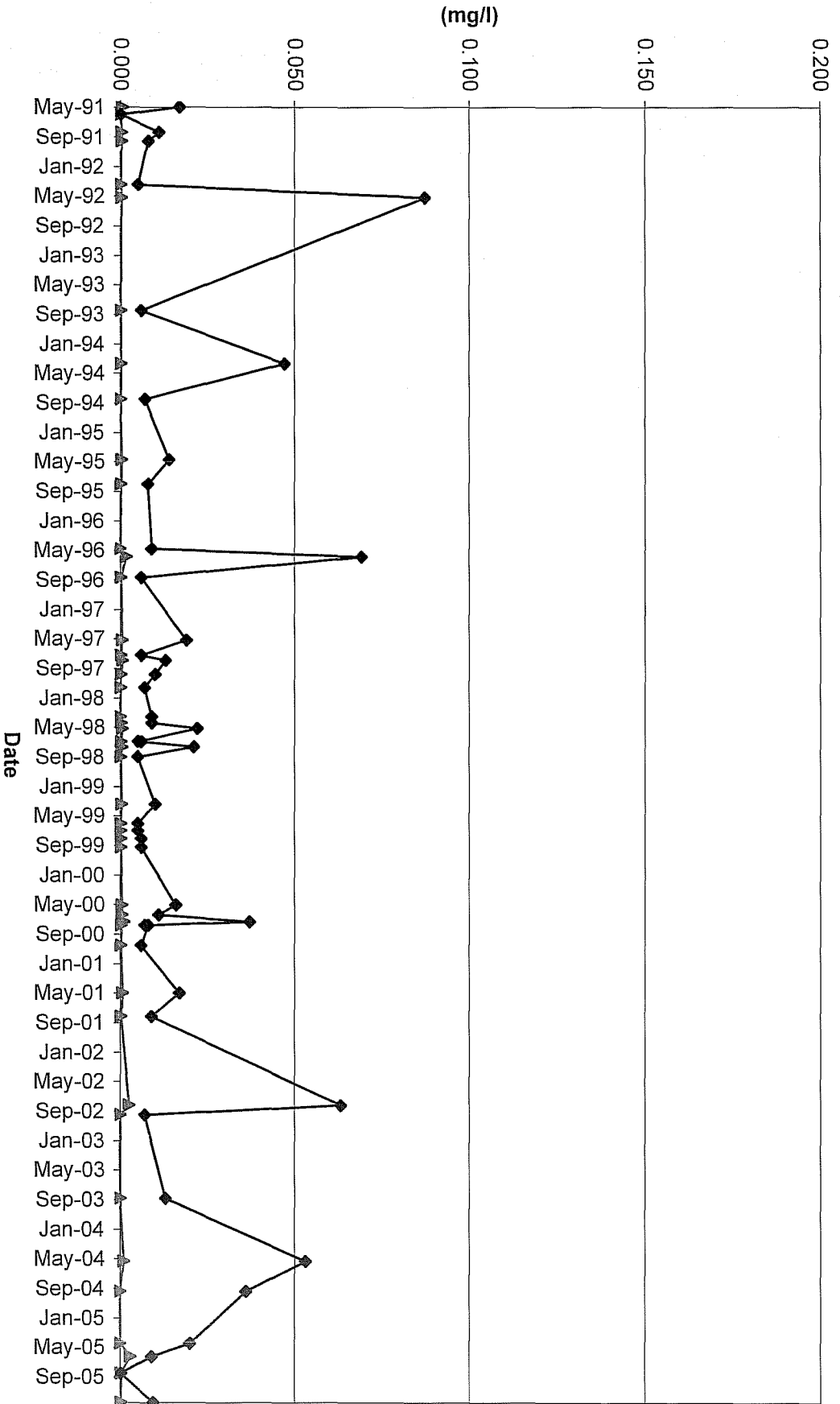


▲ Arsenic ◆ Zinc

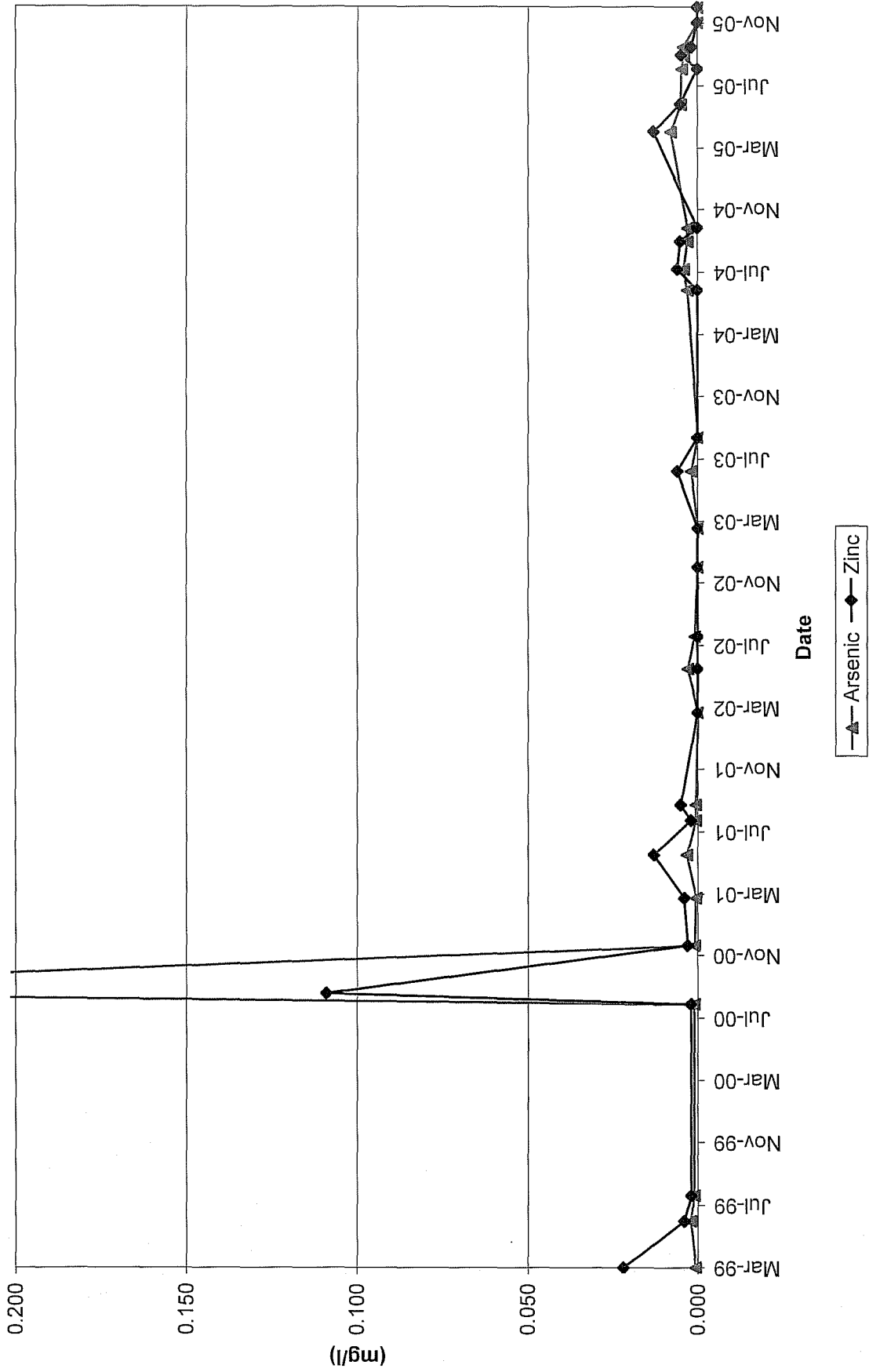
BC-31: Golden Cr. Upstream of confluence with S. Klondike



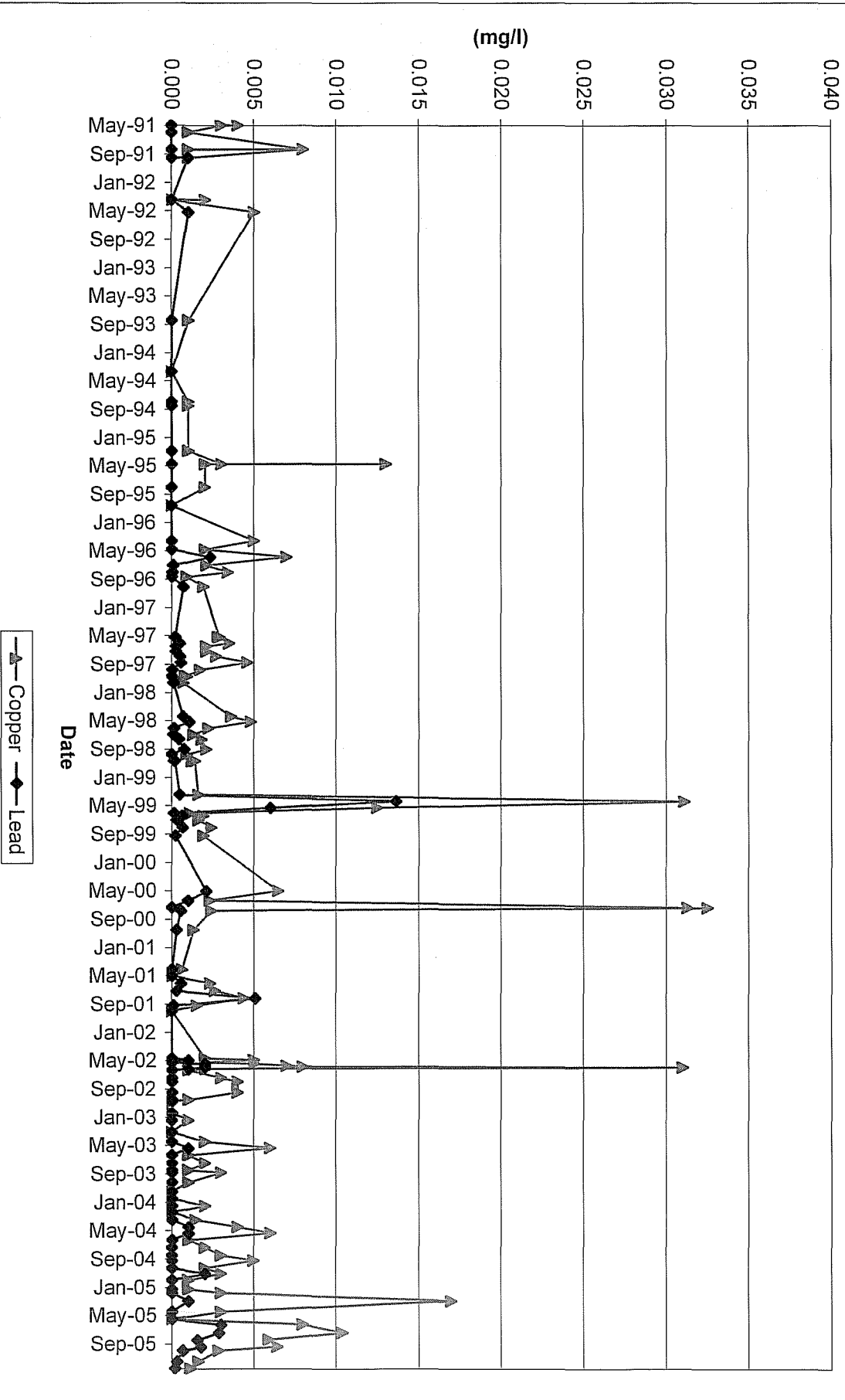
BC-34: Lee Creek At Ditch Road



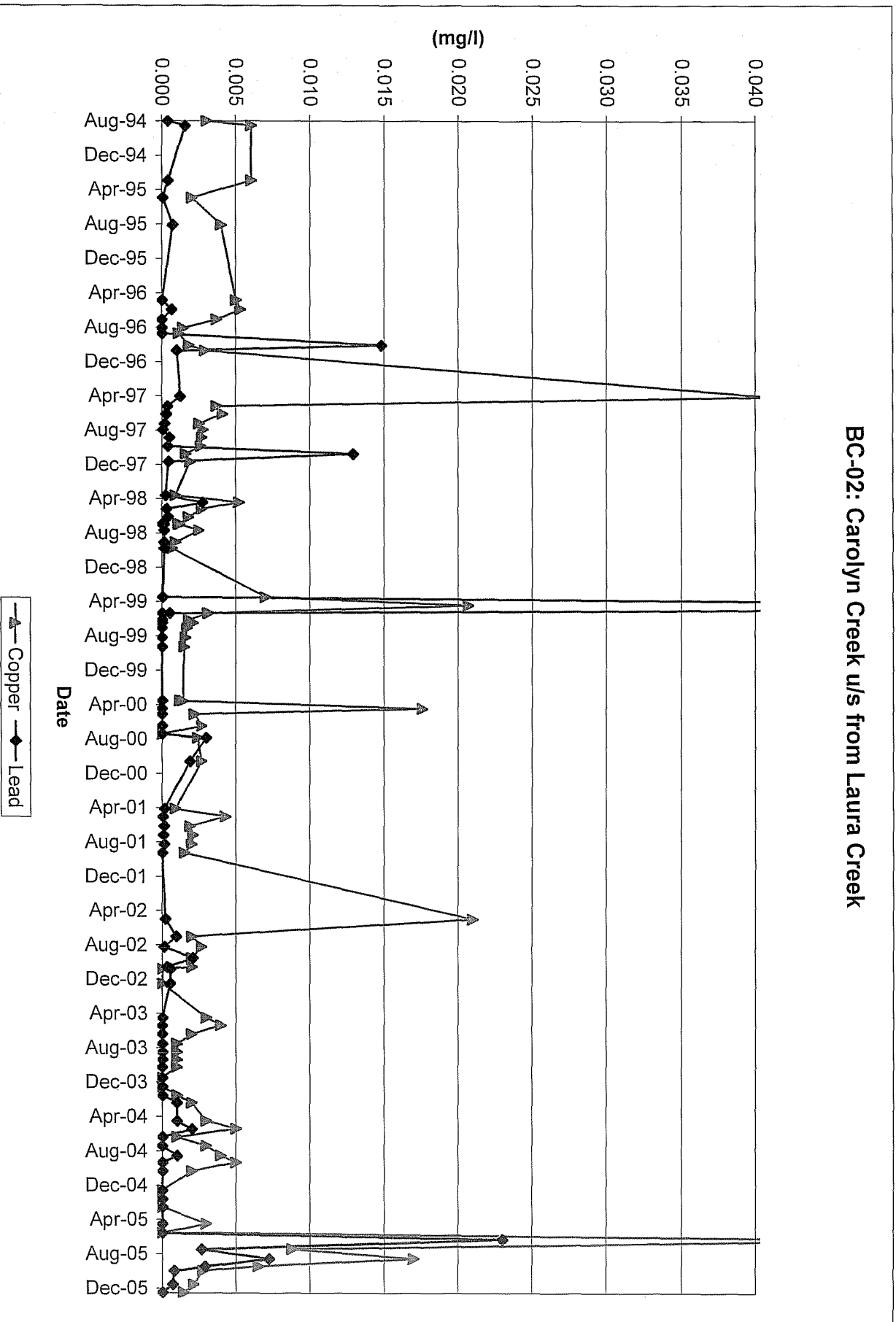
BC-39: Laura Creek at confluence with S. Klondike



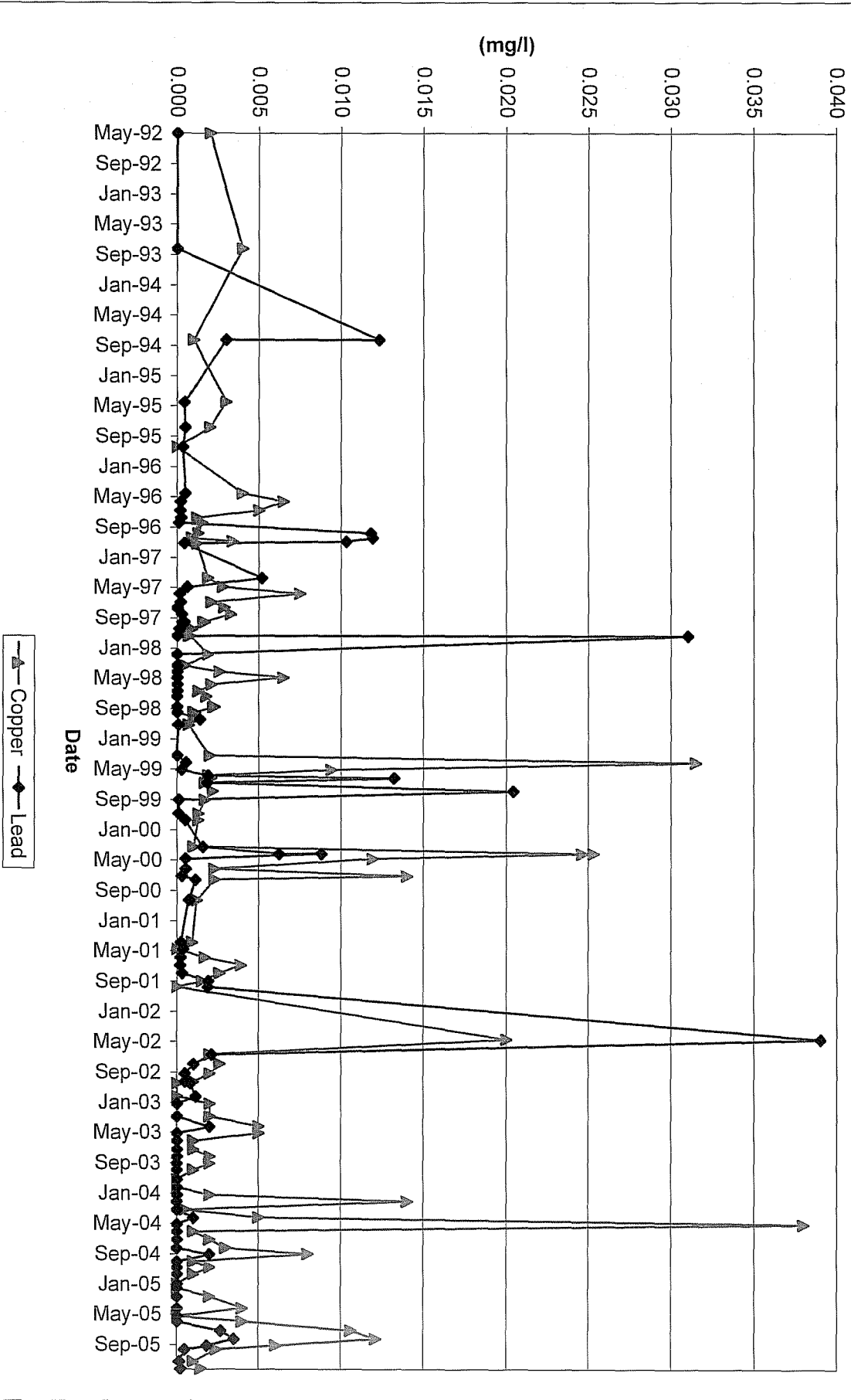
BC-01: Laura Creek 50m above Ditch Road



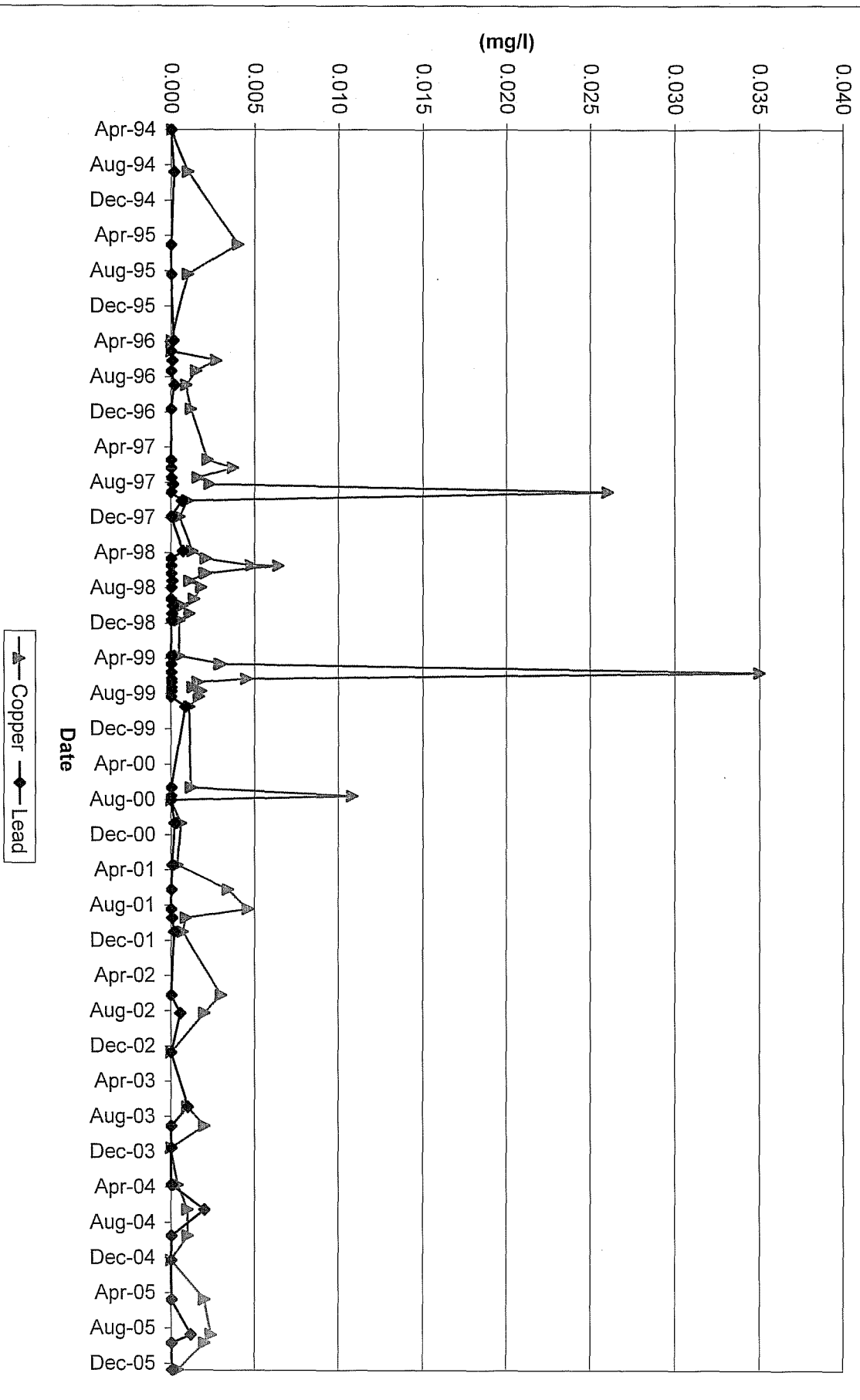
BC-02: Carolyn Creek u/s from Laura Creek



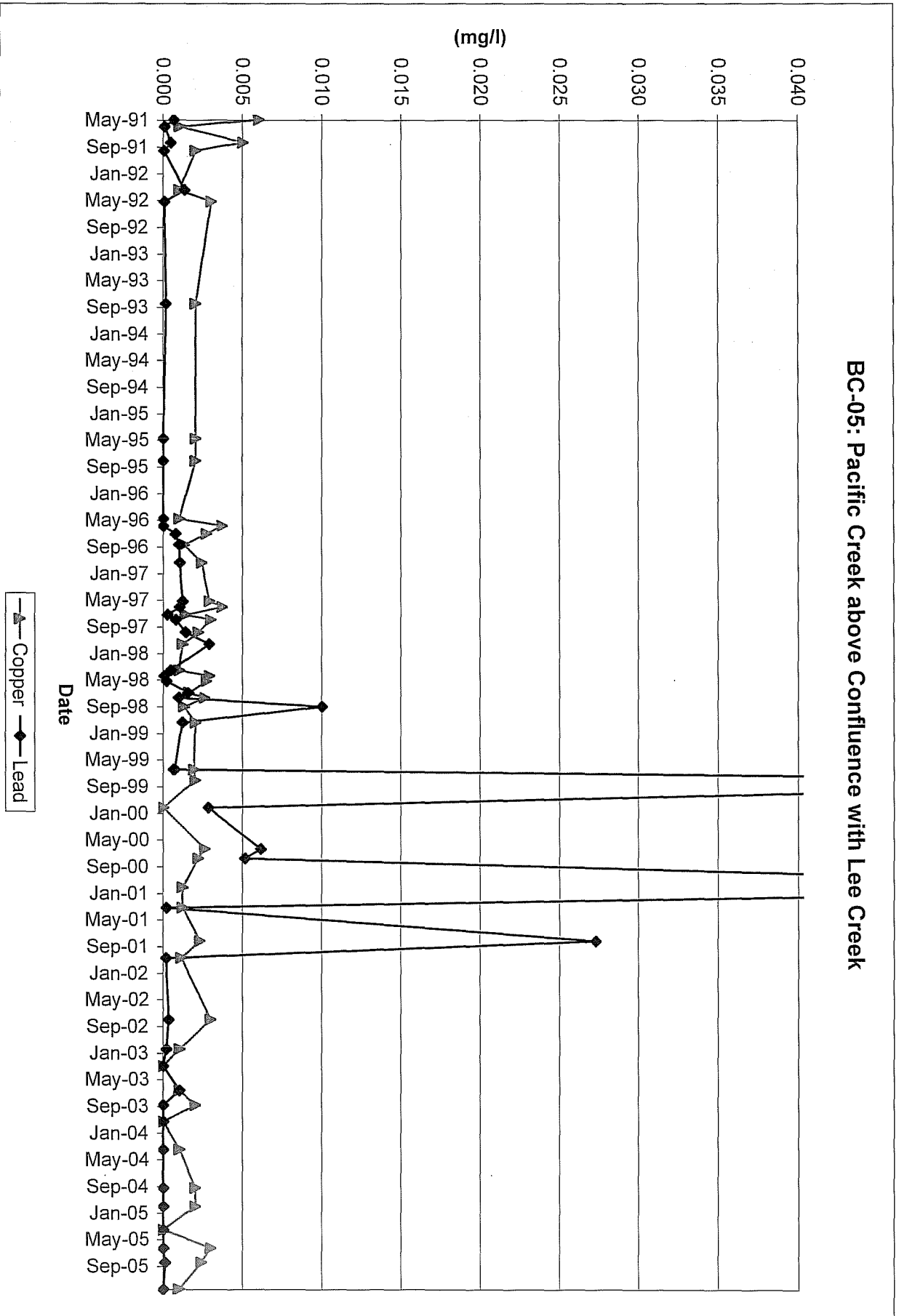
BC-03: Laura Creek Above Carolyn Creek



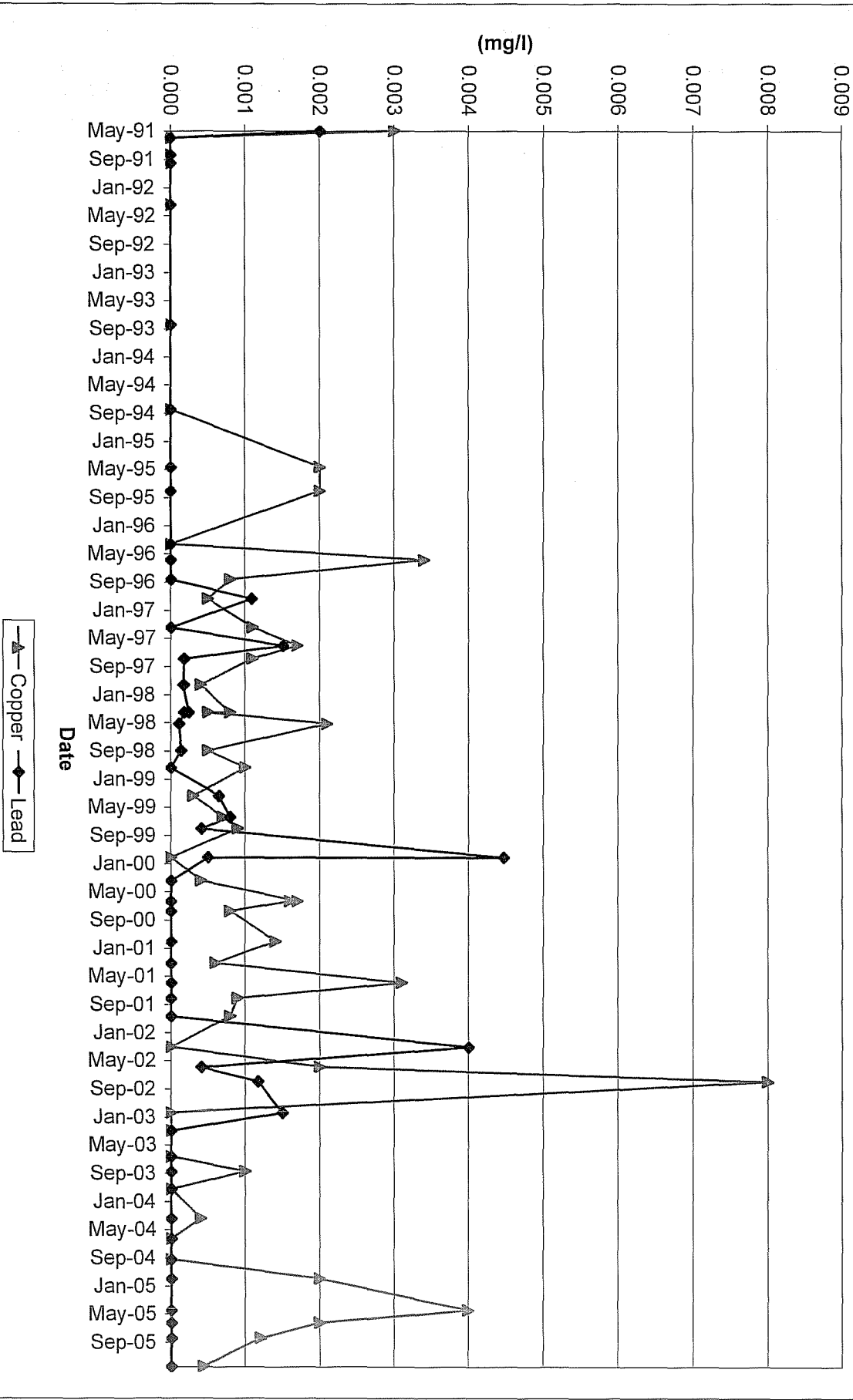
BC-04: Lucky Creek



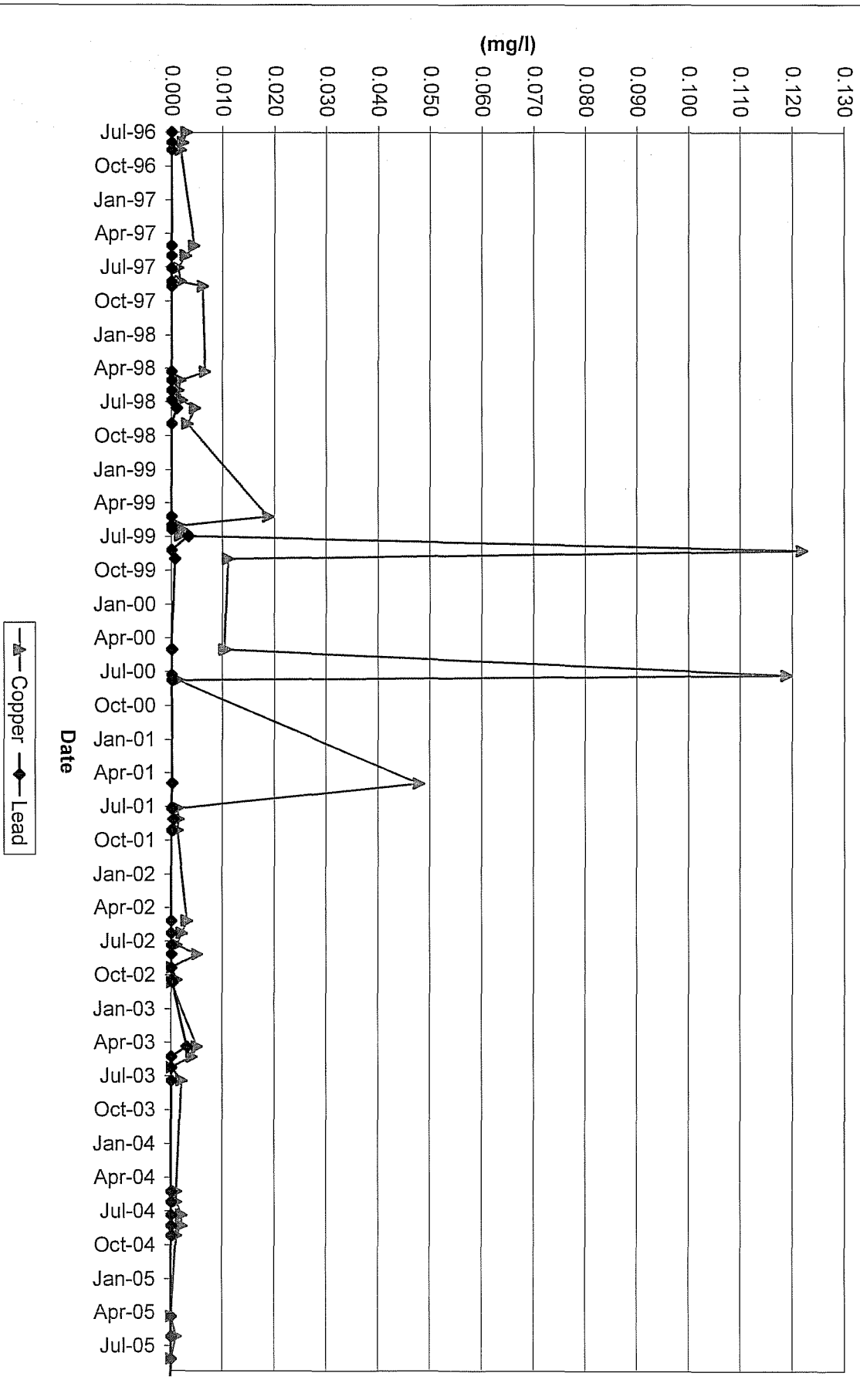
BC-05: Pacific Creek above Confluence with Lee Creek



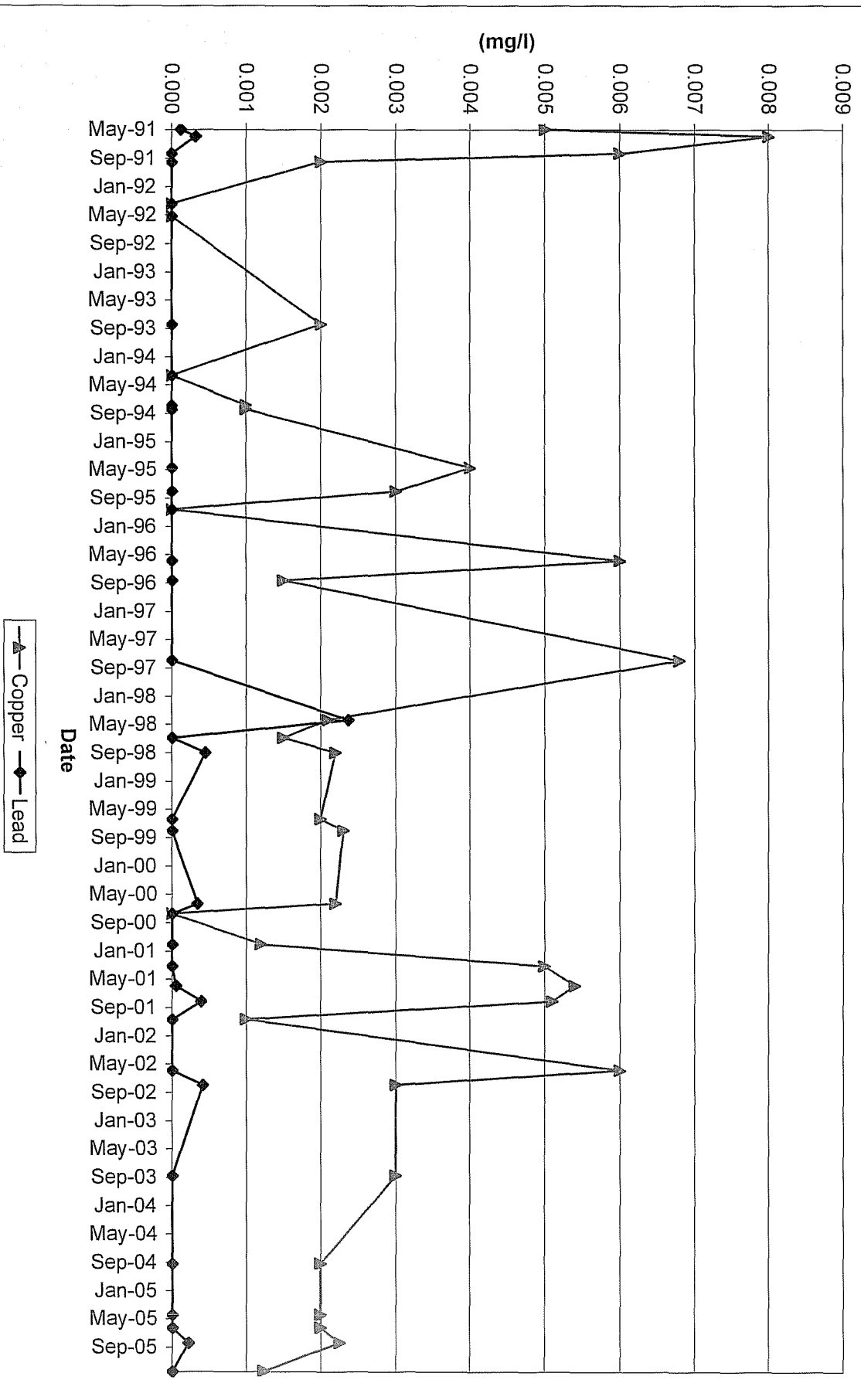
BC-06: S. Klondike d/s from confluence w/Lee Creek



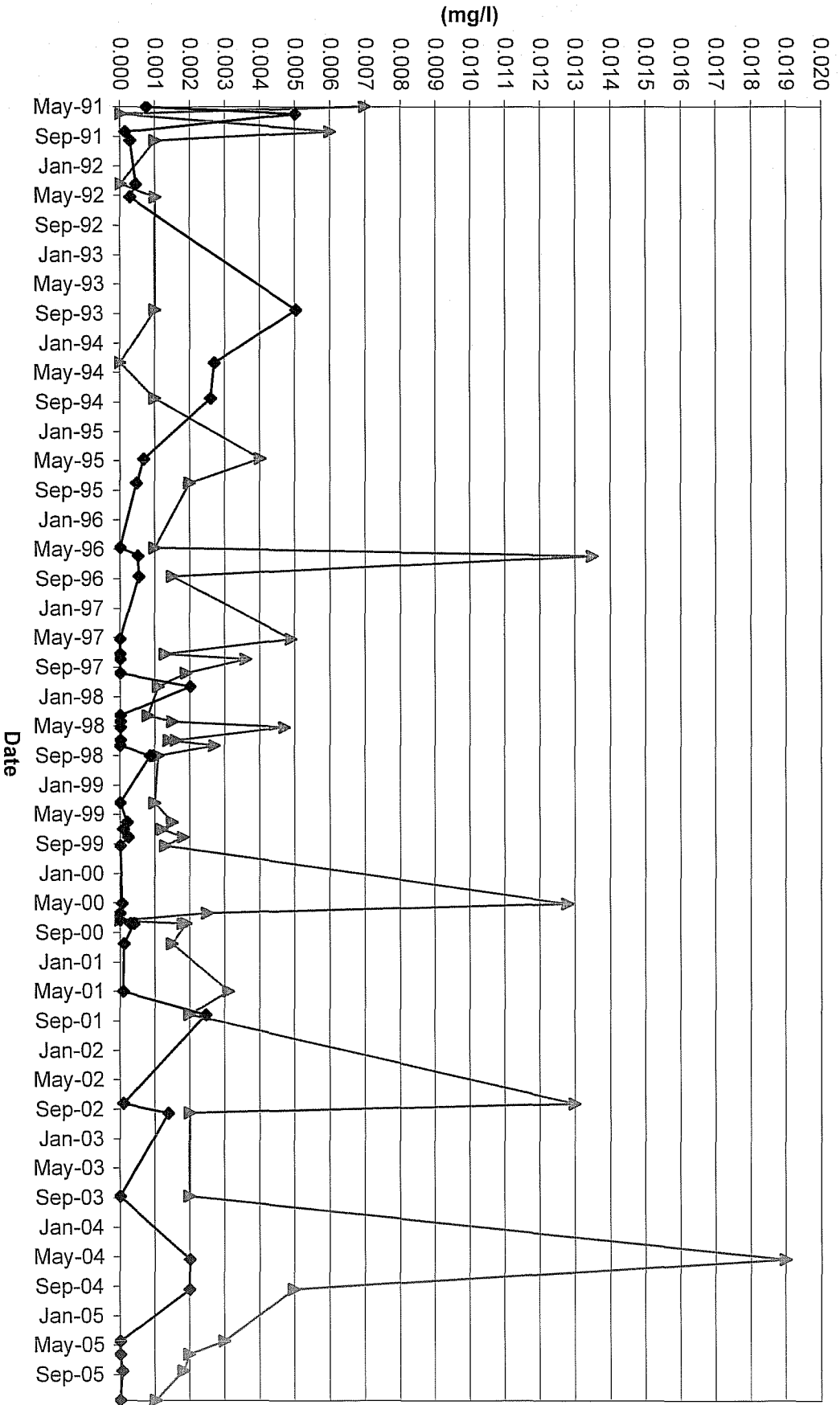
BC-16: Pacific Gulch 300m above Laura Creek



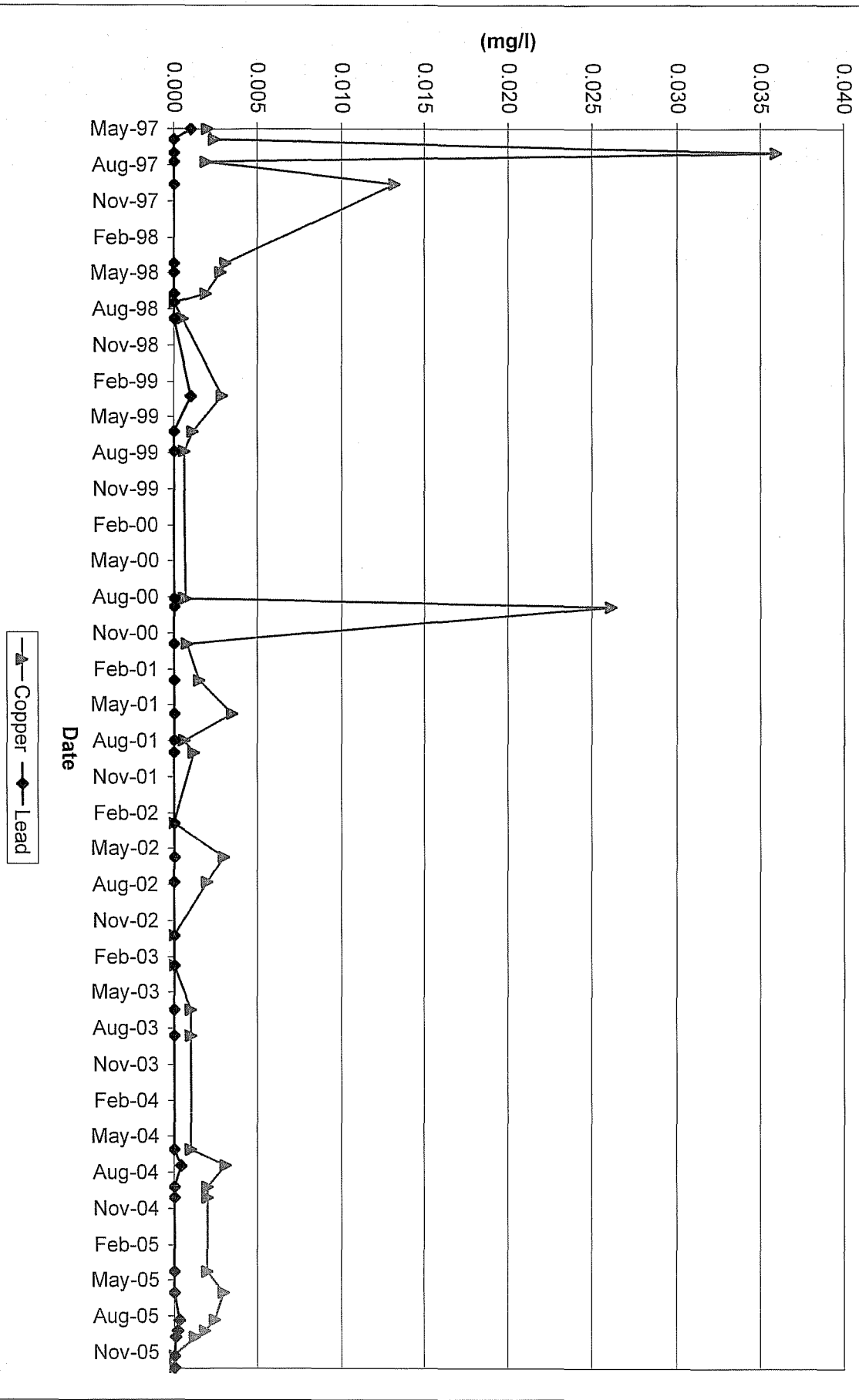
BC-31: Golden Cr. Upstream of confluence with S. Klondike



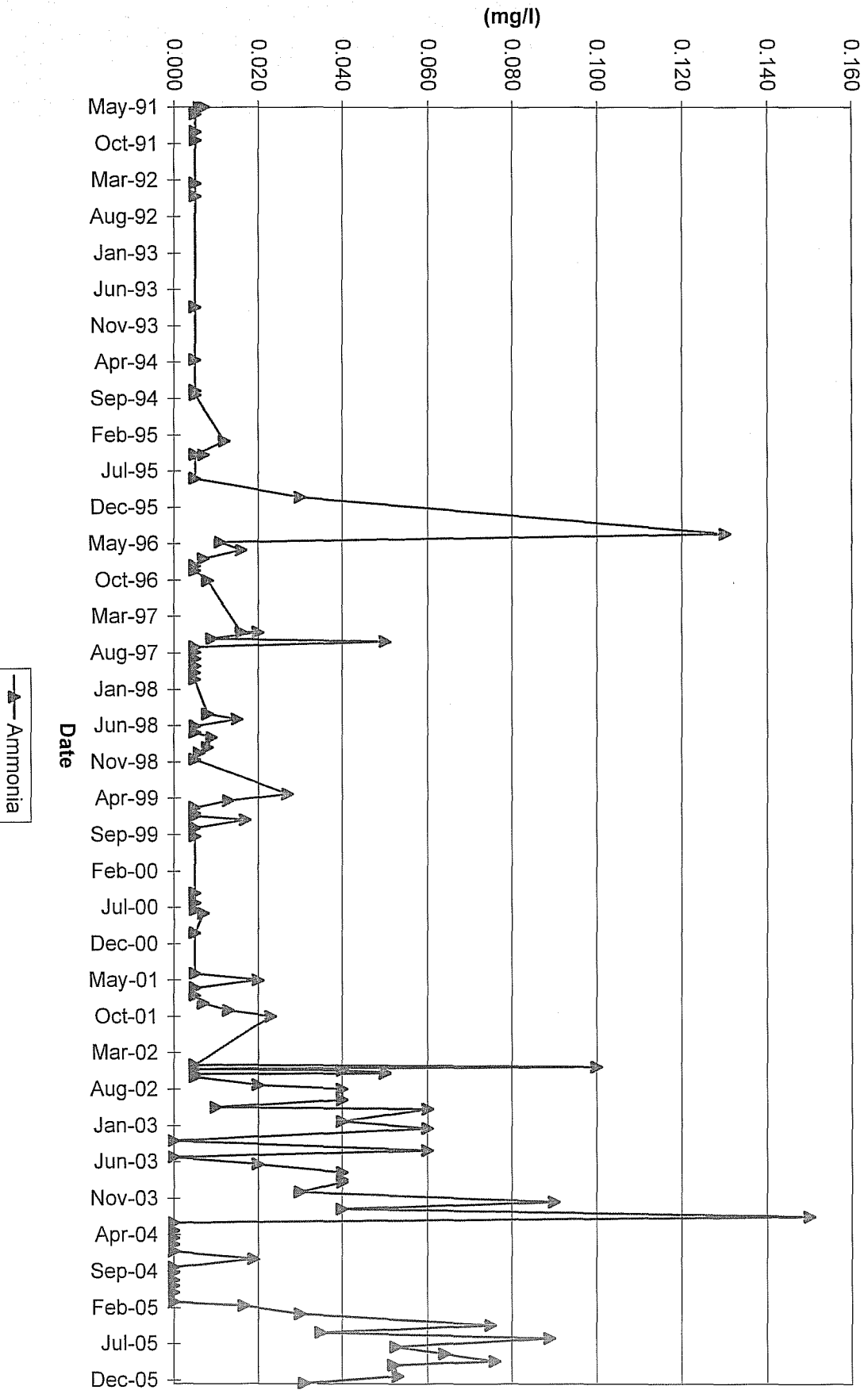
BC-34: Lee Creek At Ditch Road



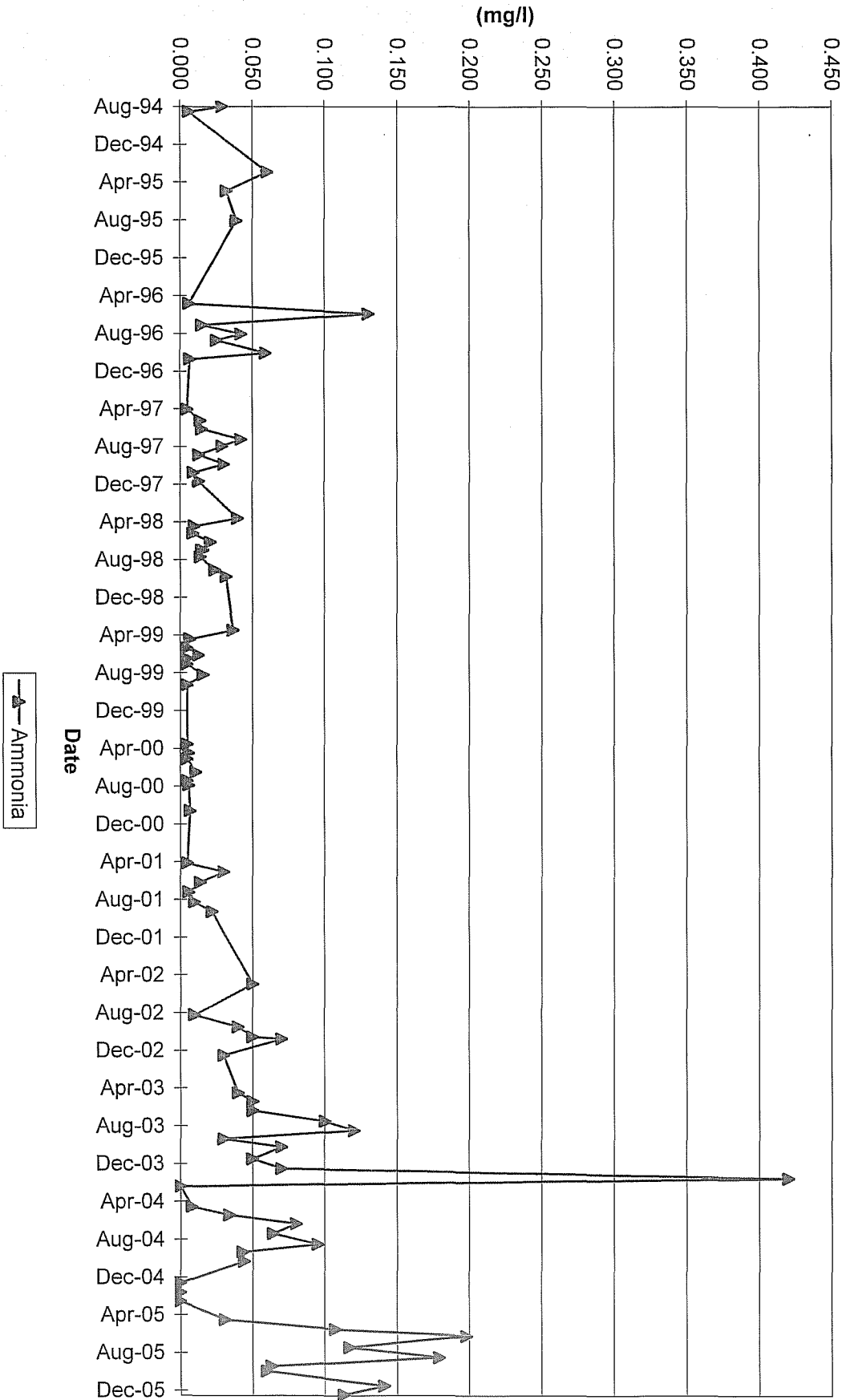
BC-39: Laura Creek at confluence with S. Klondike



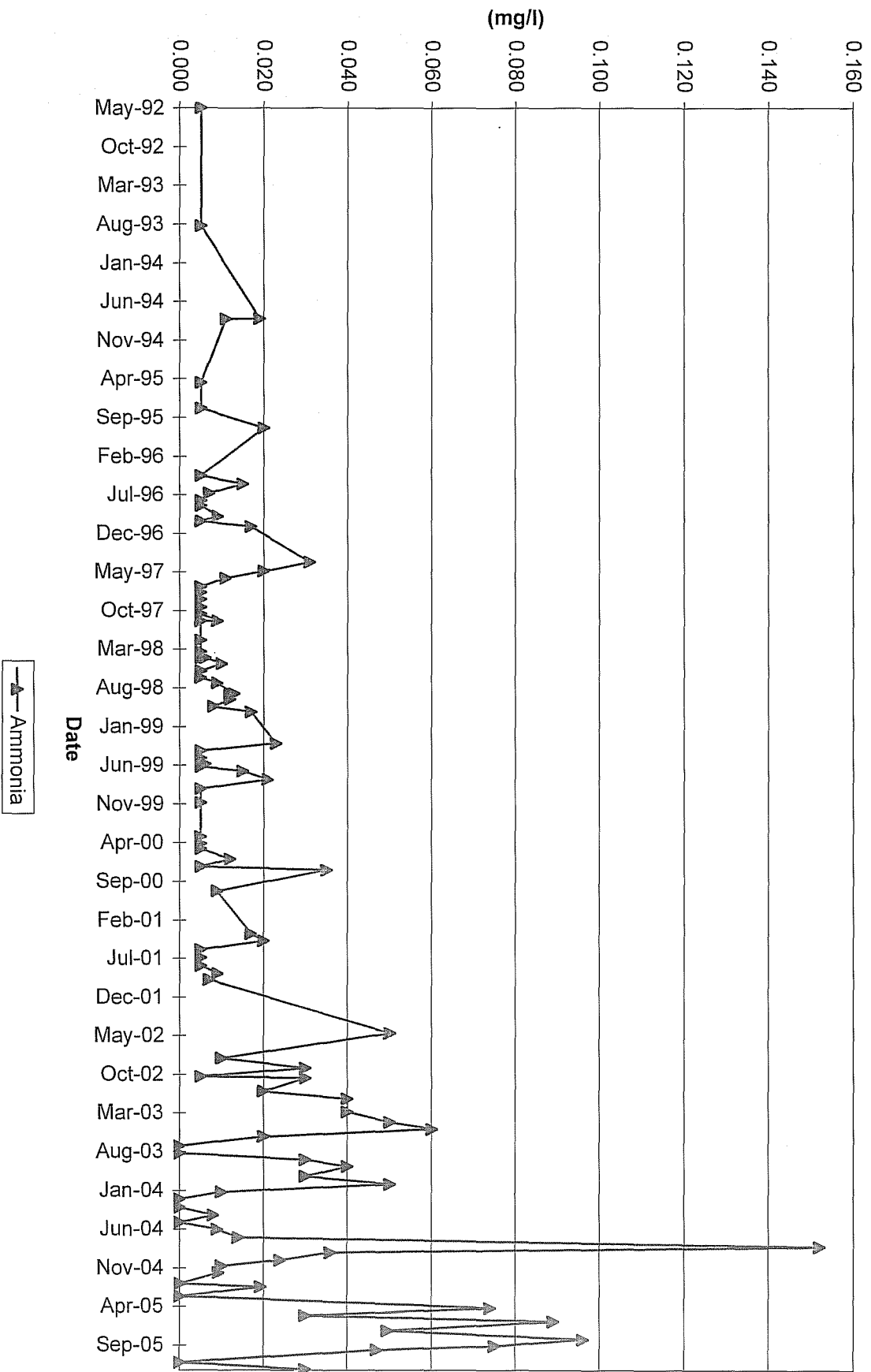
BC-01: Laura Creek 50m above Ditch Road



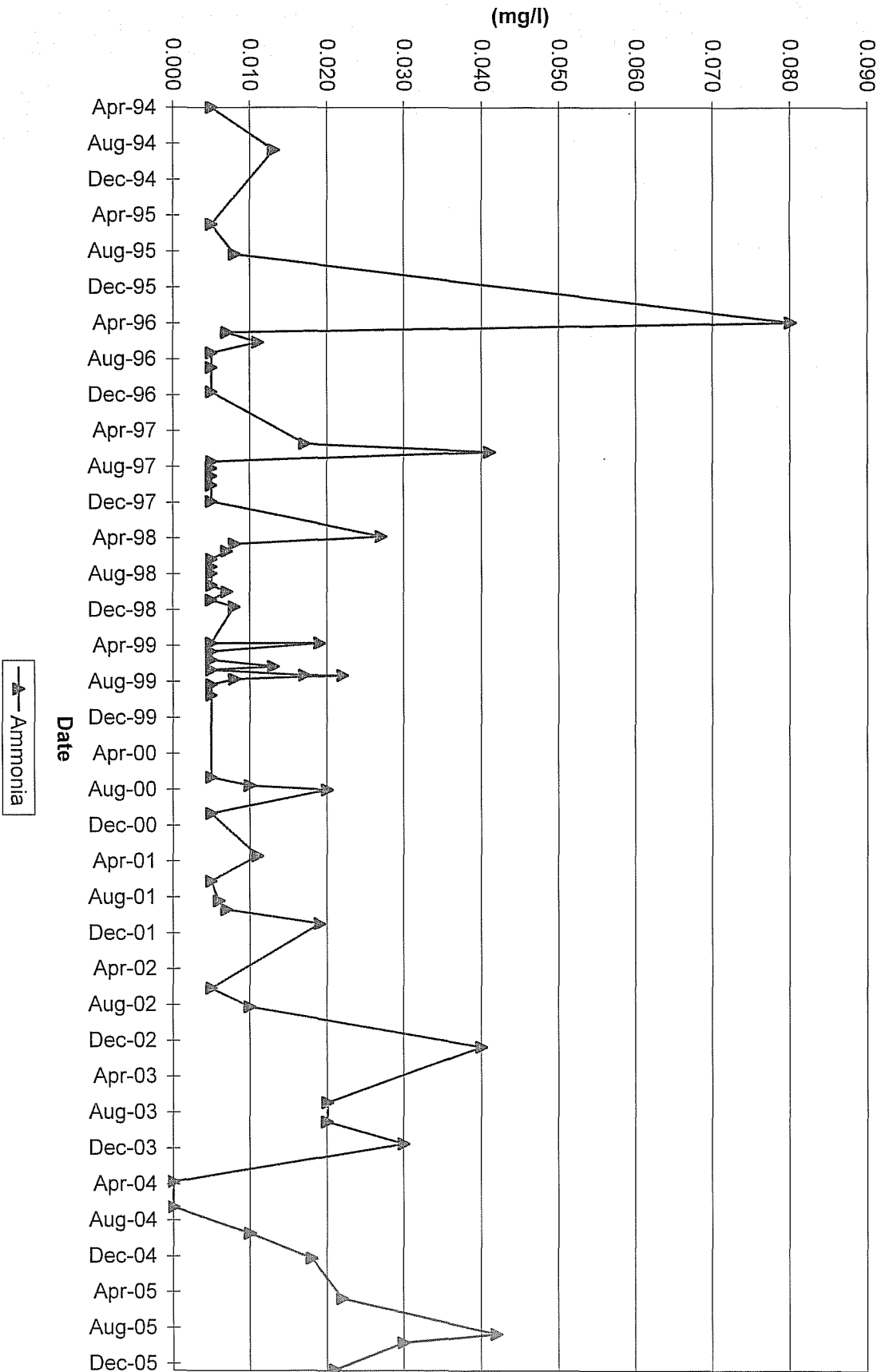
BC-02: Carolyn Creek u/s from Laura Creek



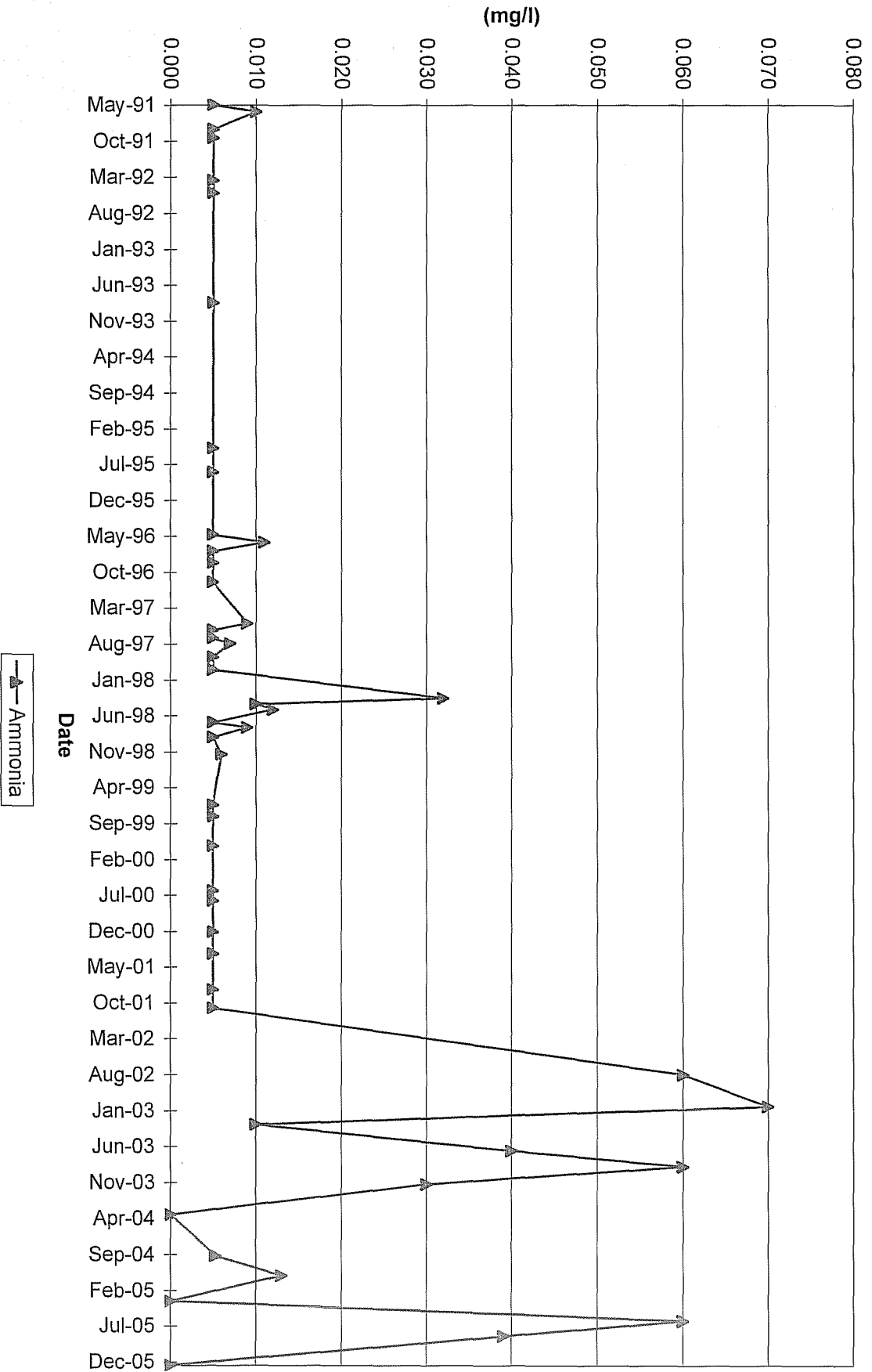
BC-03: Laura Creek Above Carolyn Creek



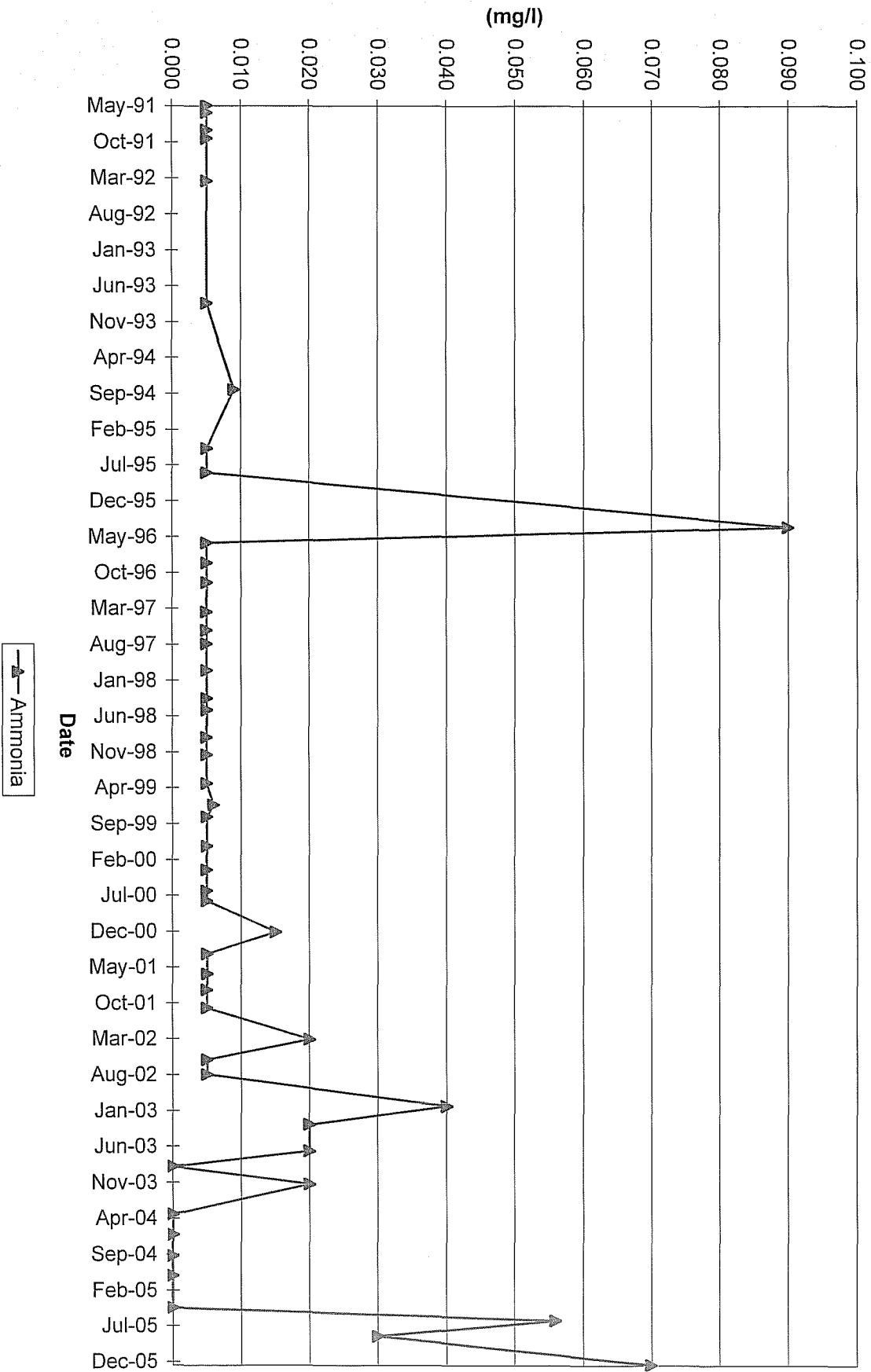
BC-04: Lucky Creek



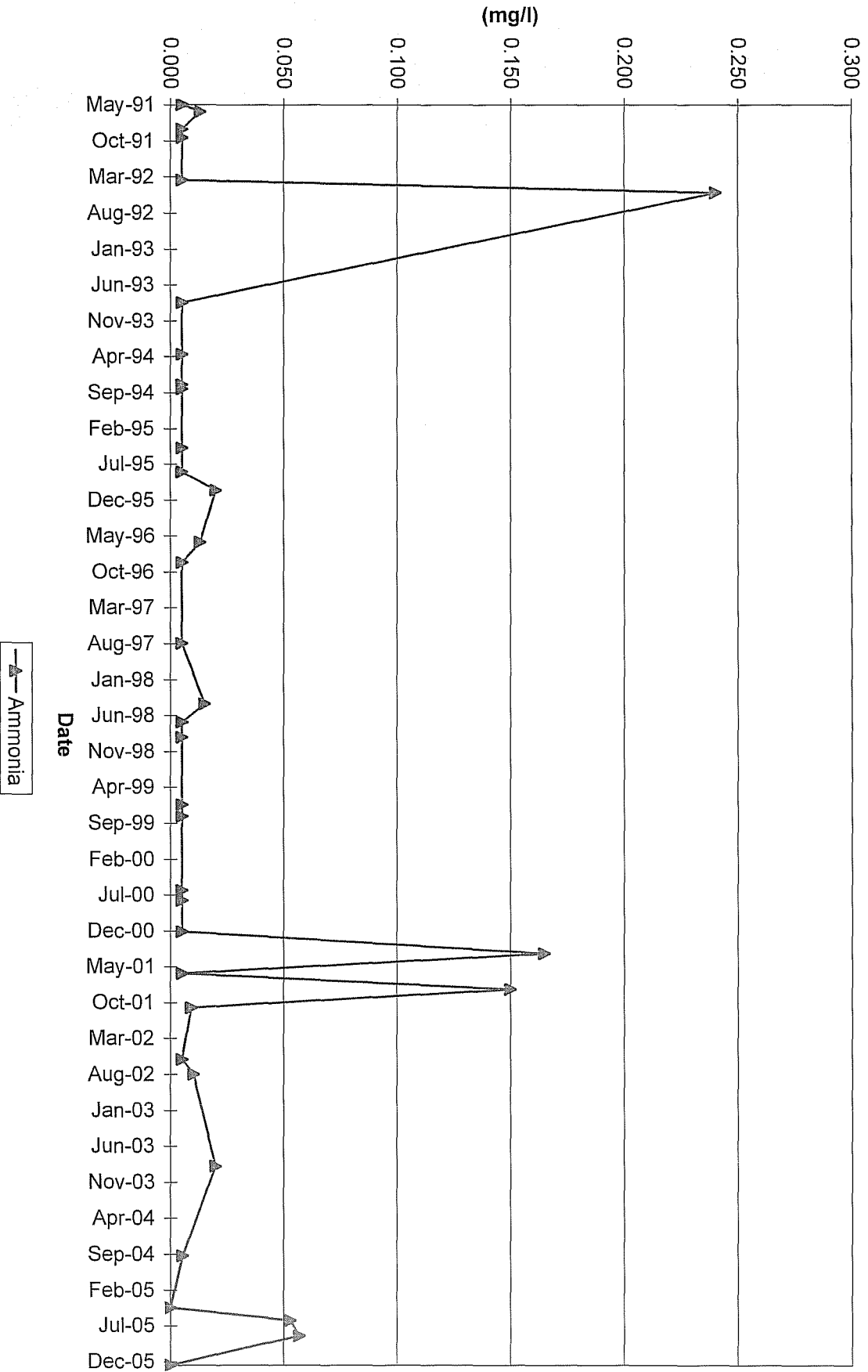
BC-05: Pacific Creek above Confluence with Lee Creek



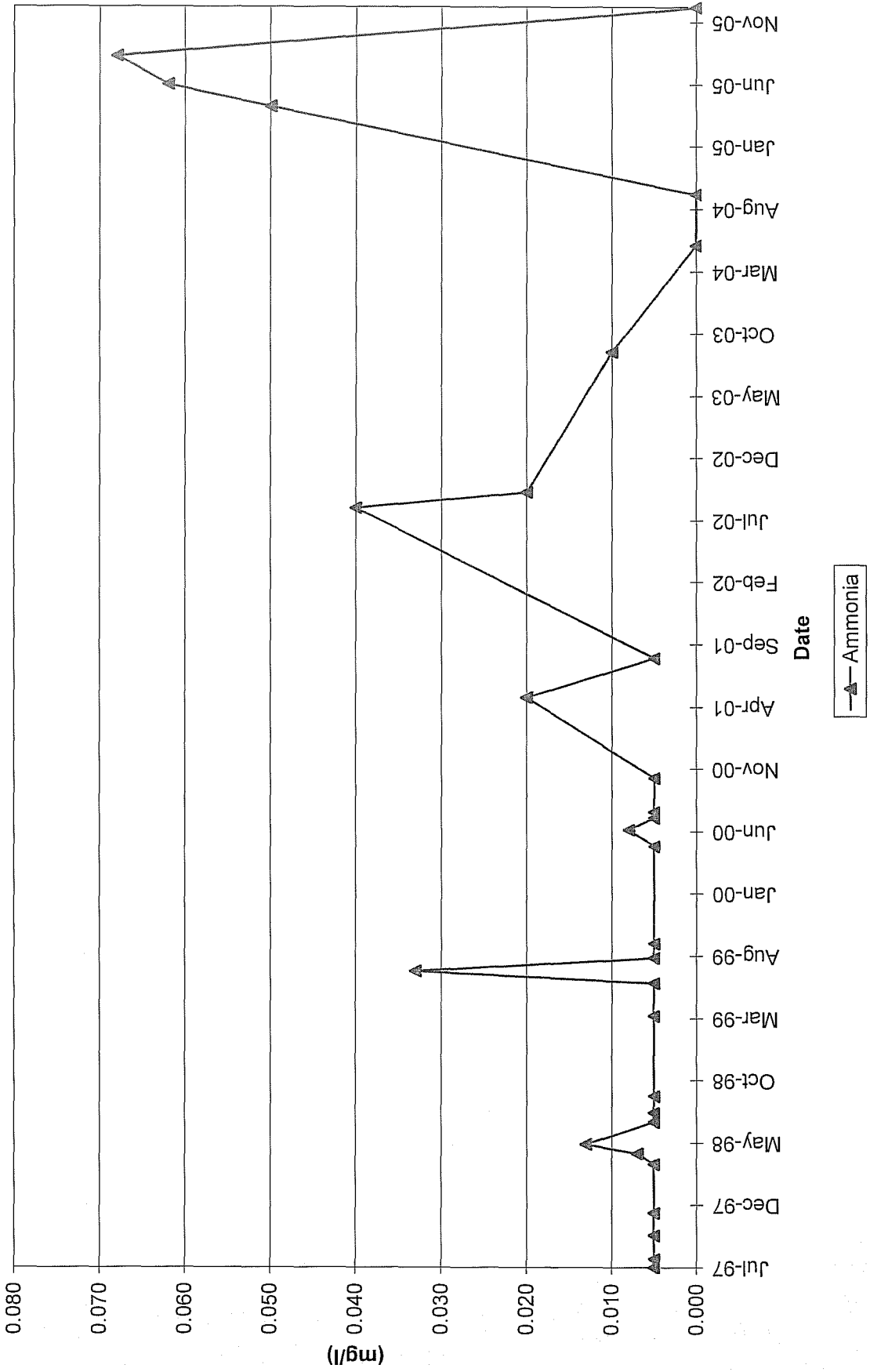
BC-06: S. Klondike d/s from confluence w/Lee Creek



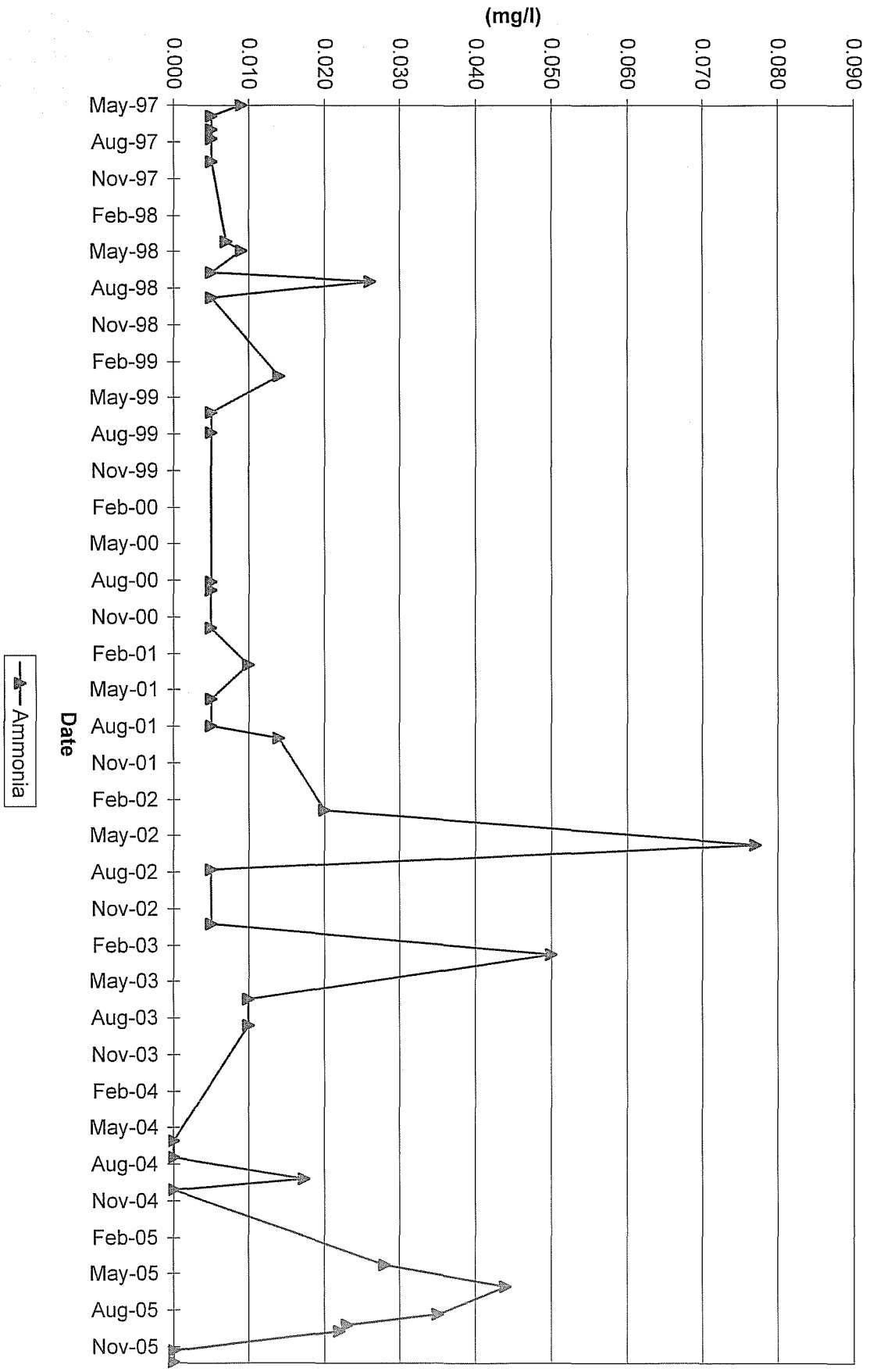
BC-31: Golden Cr. Upstream of confluence with S. Klondike



BC-34: Lee Creek At Ditch Road

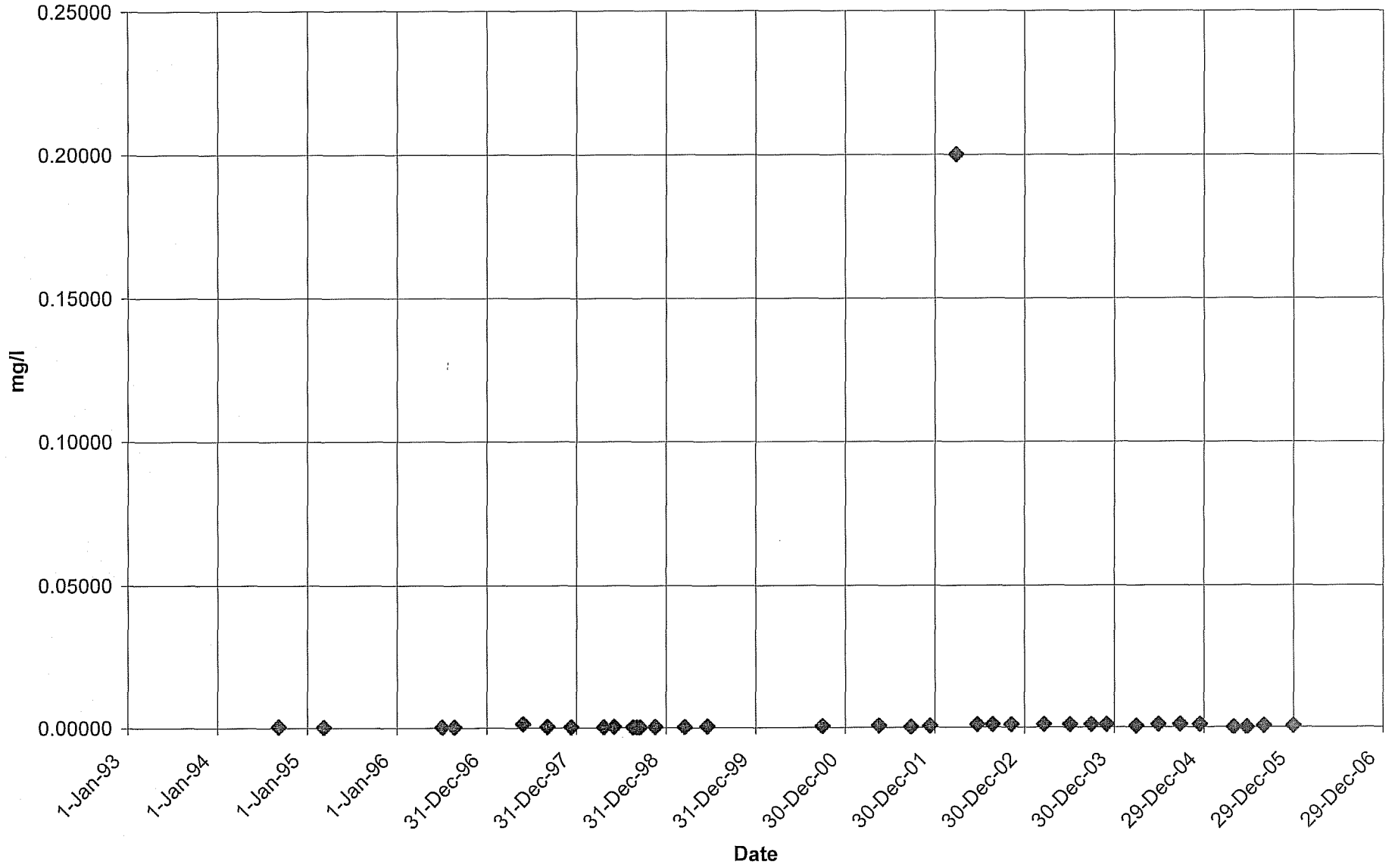


BC-39: Laura Creek at confluence with S. Klondike



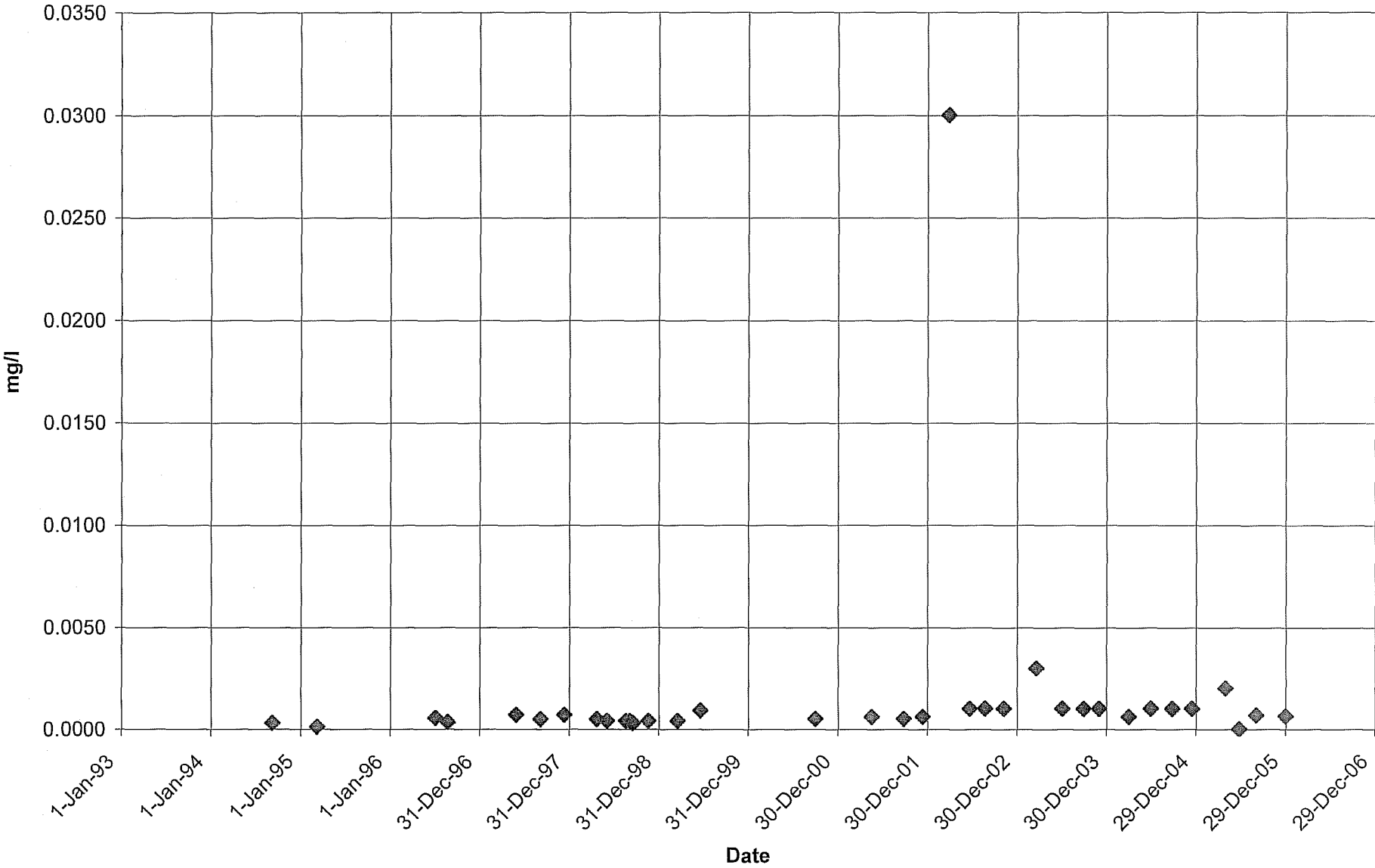
Brewery Creek Mine

BC-19 (Piezometer RC94-843)
Antimony



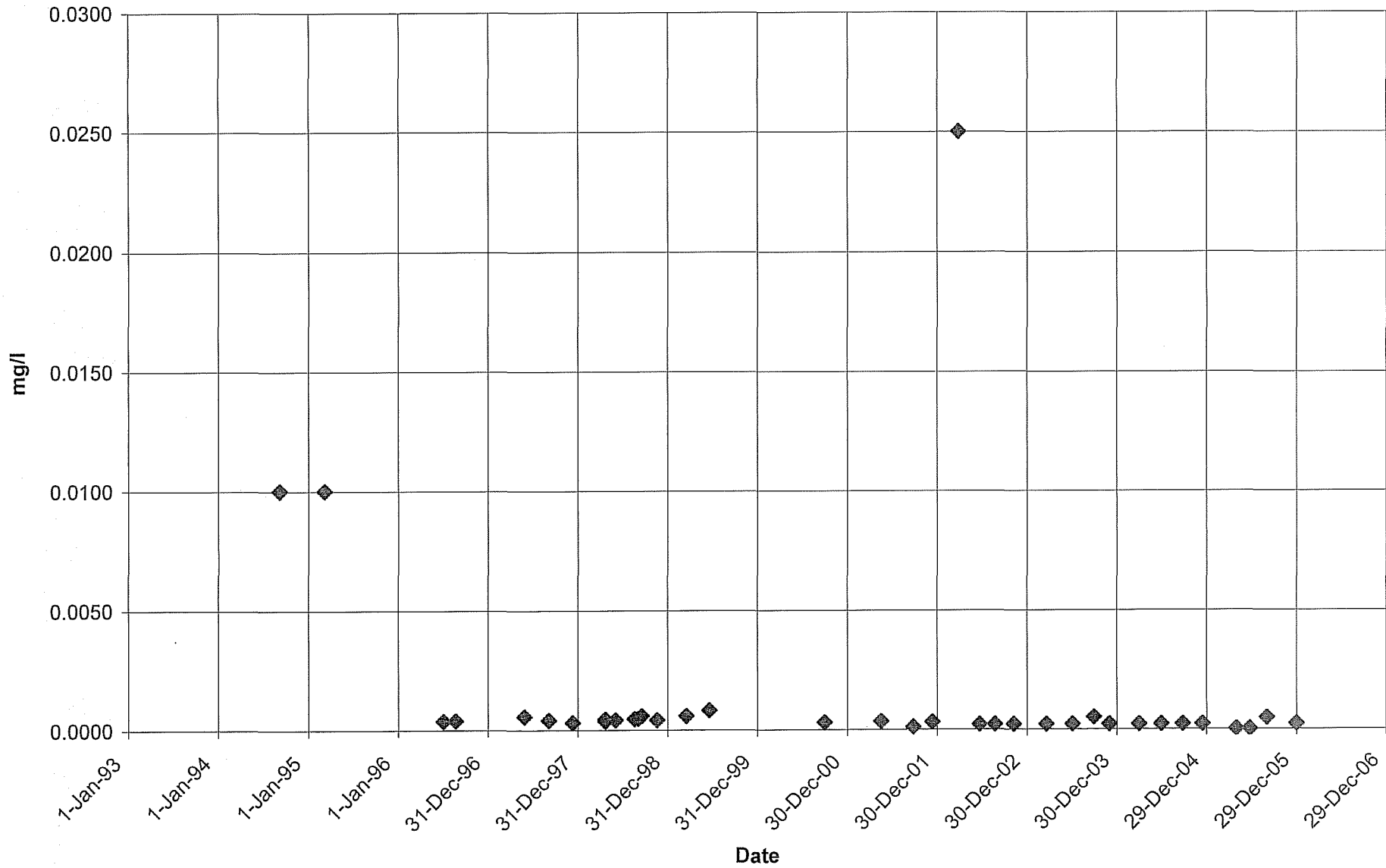
Brewery Creek Mine

BC-19 (Piezometer RC94-843)
Arsenic



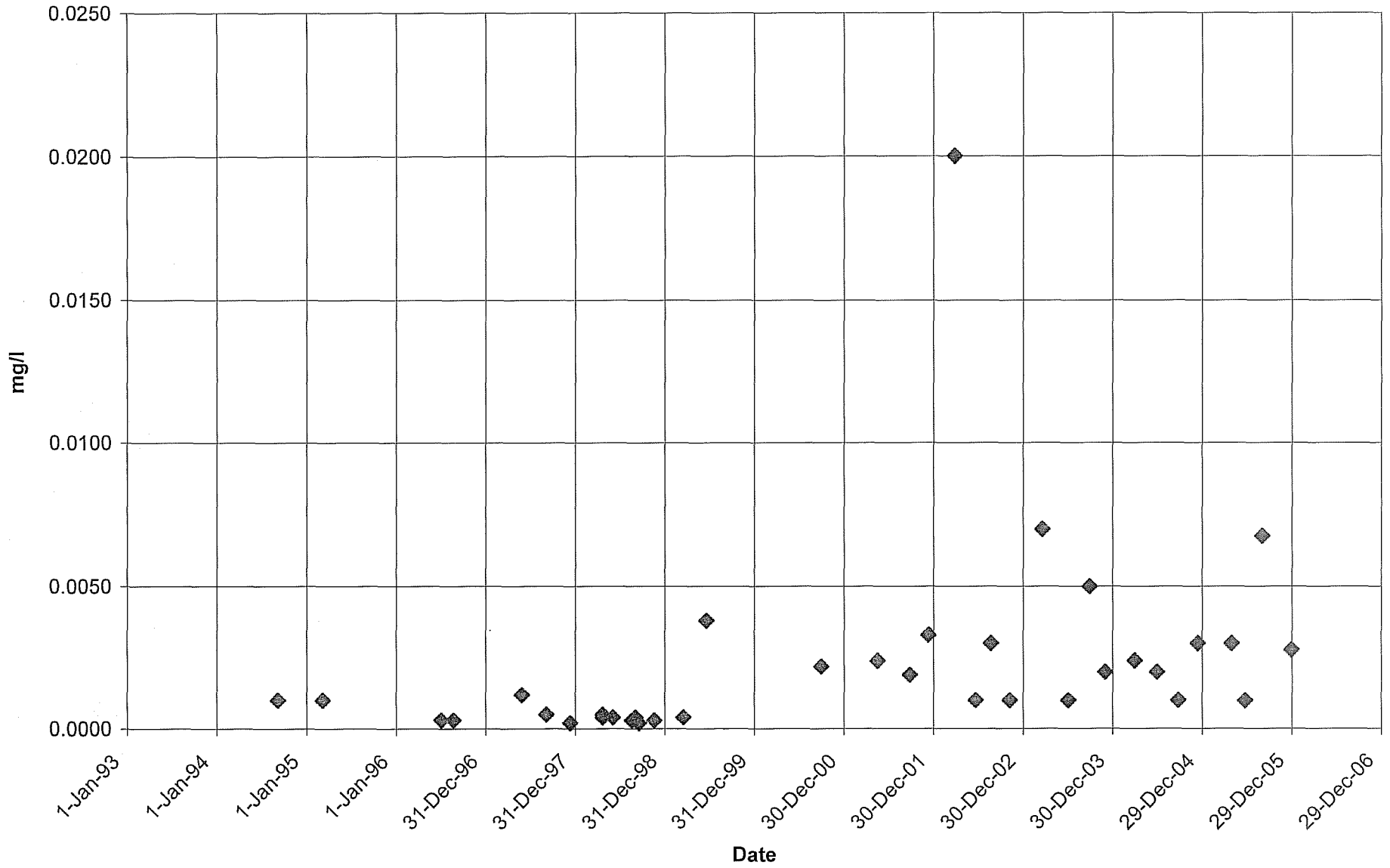
Brewery Creek Mine

BC-19 (Piezometer RC94-843) Cadmium



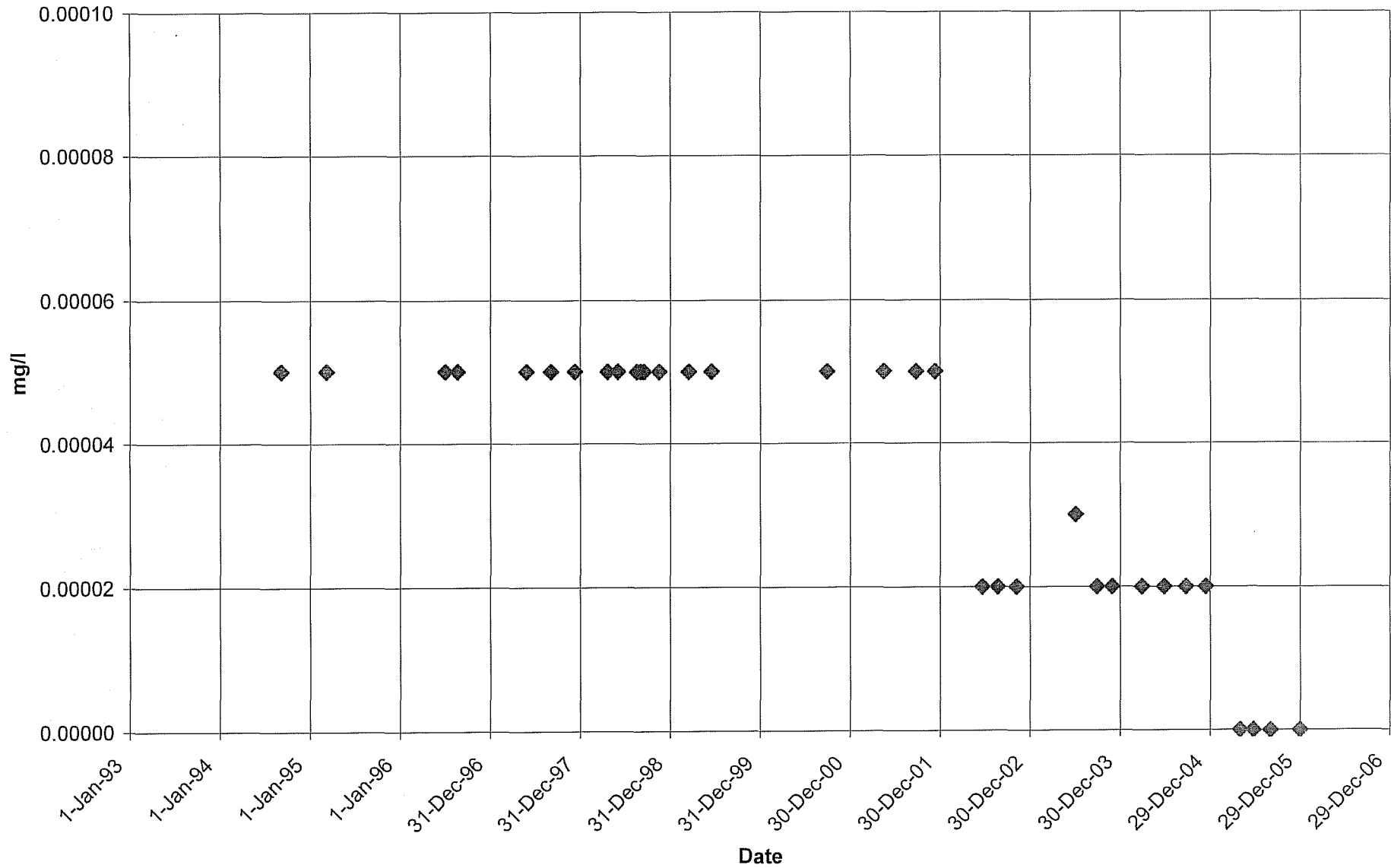
Brewery Creek Mine

BC-19 (Piezometer RC94-843)
Copper



Brewery Creek Mine

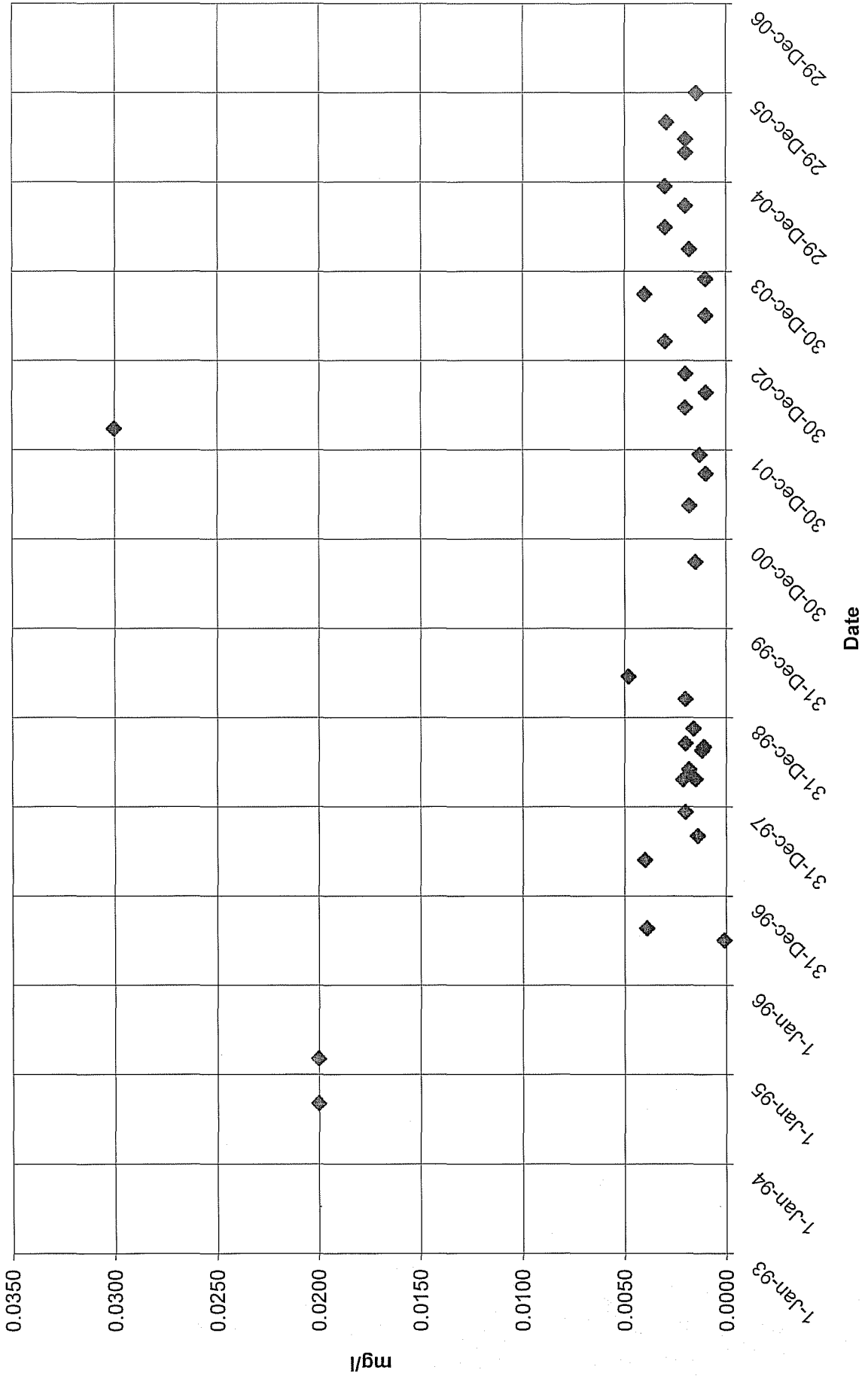
BC-19 (Piezometer RC94-843)
Mercury



Brewery Creek Mine

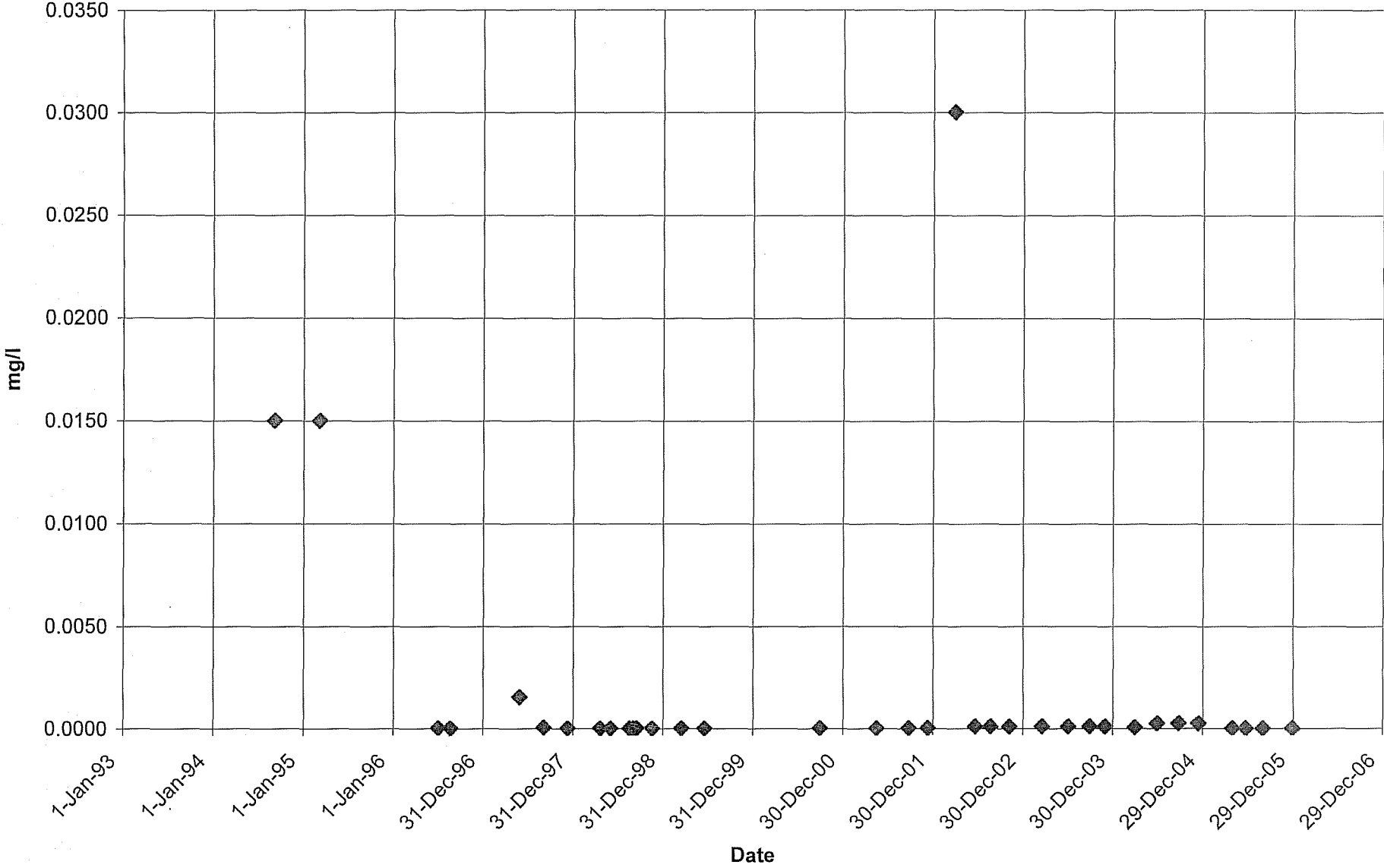
BC-19 (Piezometer RC94-843)

Nickel



Brewery Creek Mine

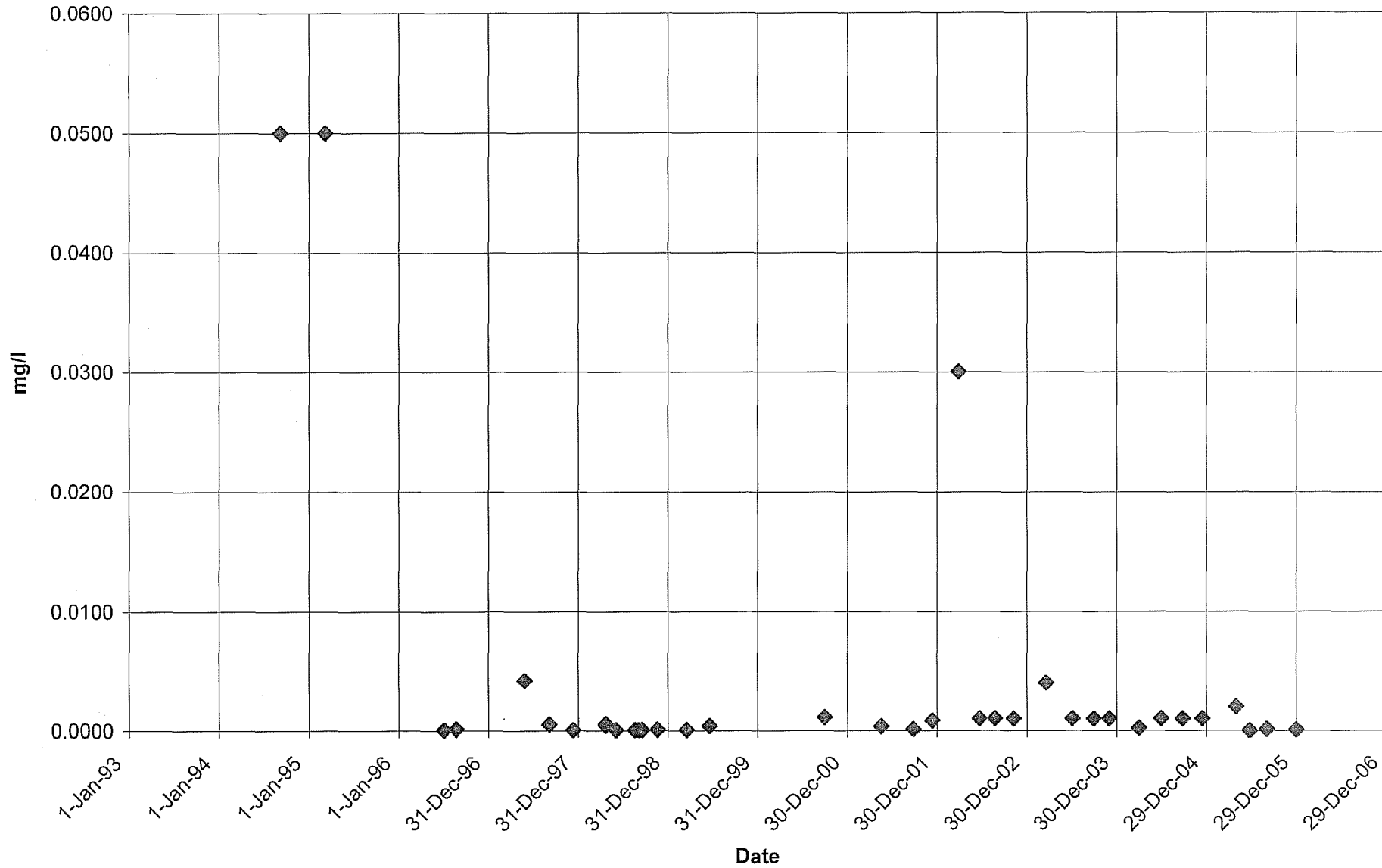
BC-19 (Piezometer RC94-843)
Silver



Brewery Creek Mine

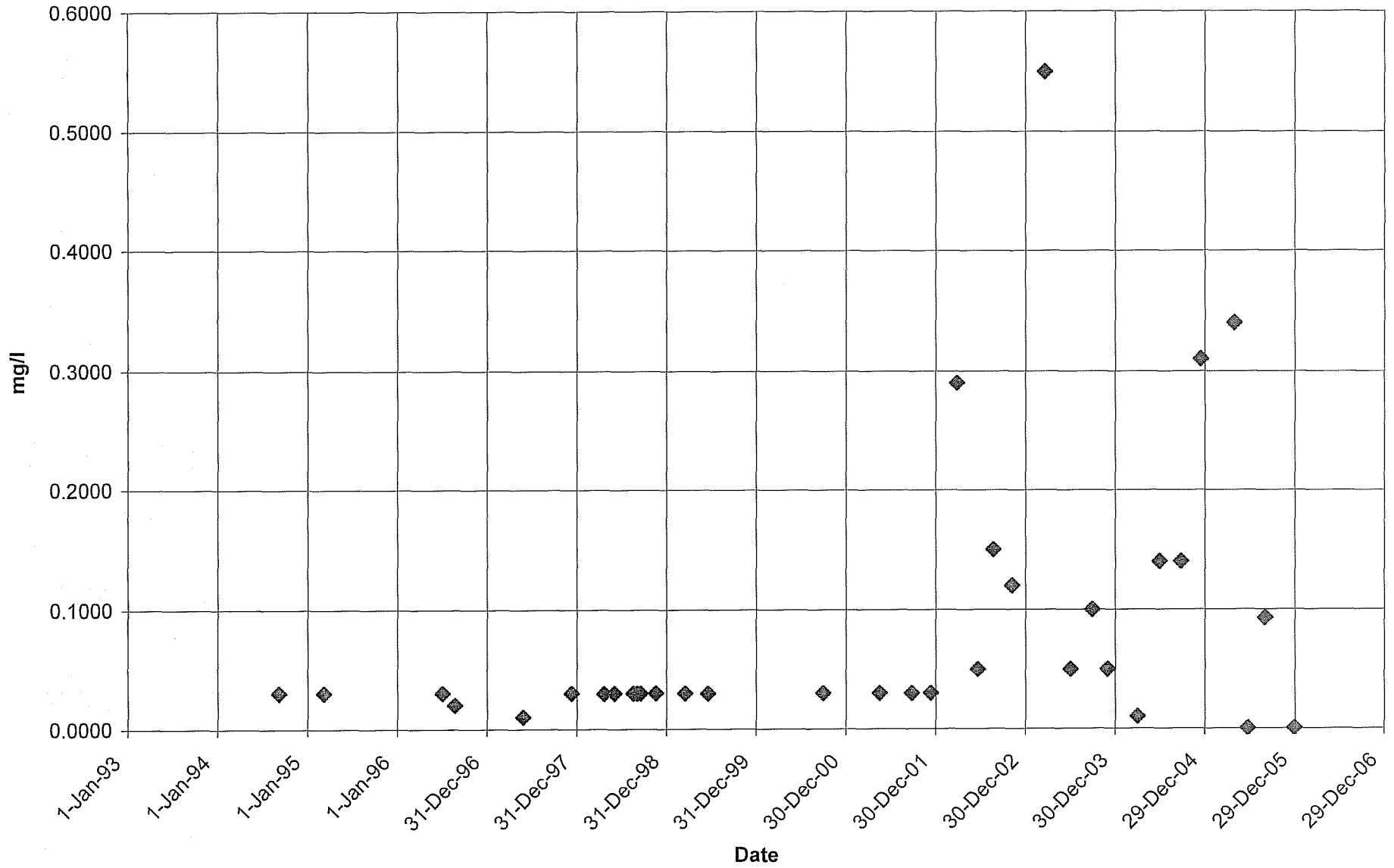
BC-19 (Piezometer RC94-843)

Lead



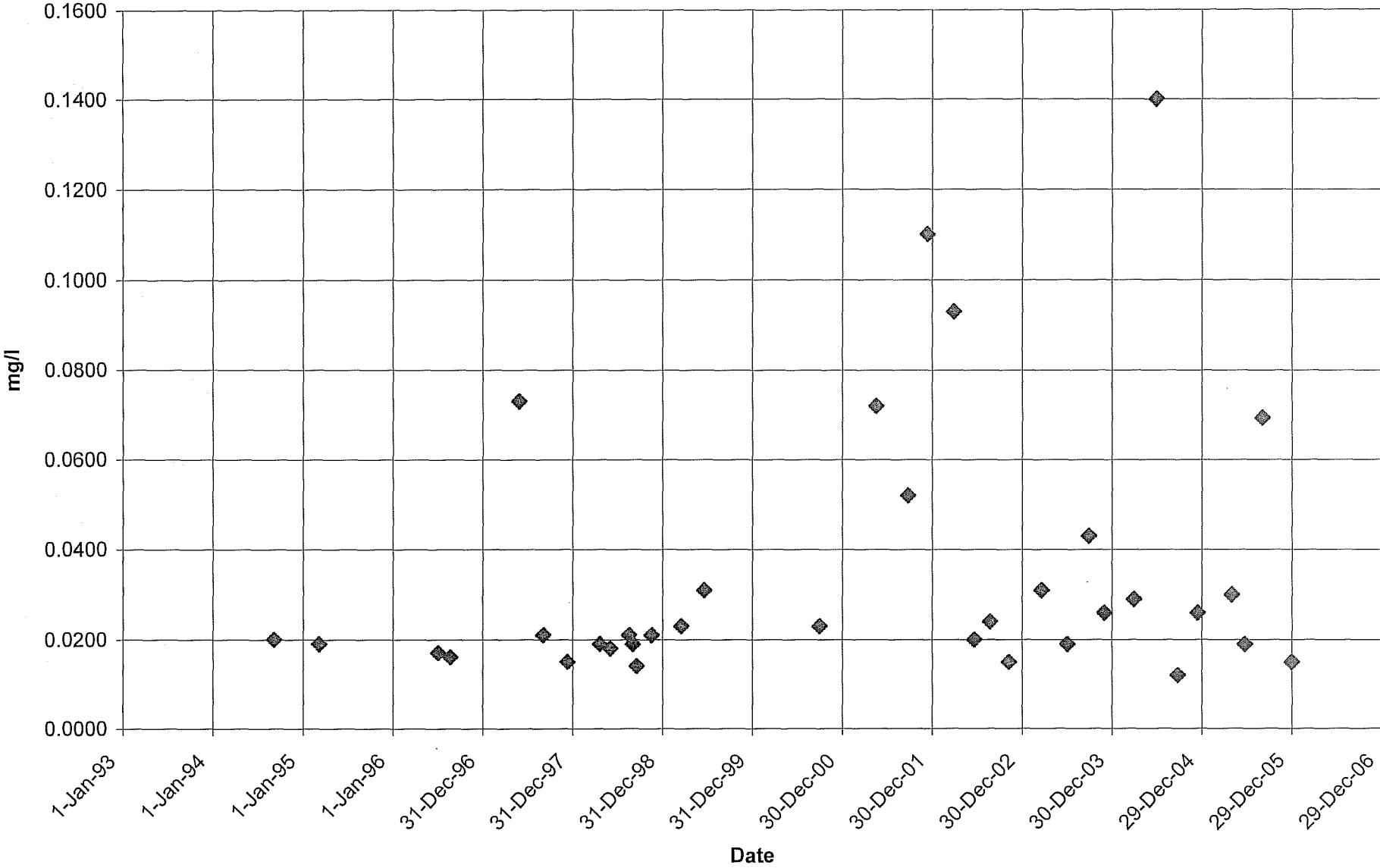
Brewery Creek Mine

BC-19 (Piezometer RC94-843)
Iron



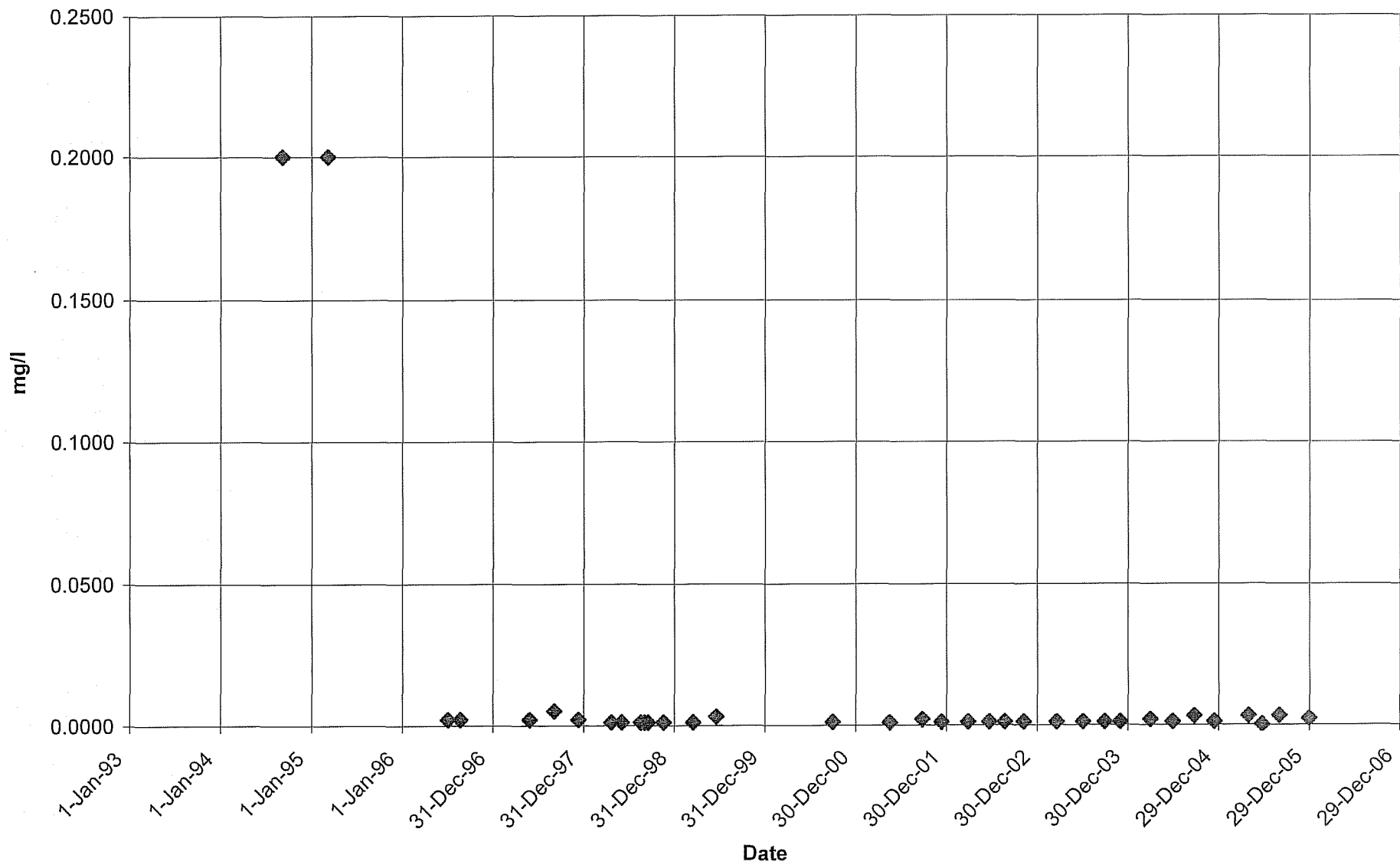
Brewery Creek Mine

BC-19 (Piezometer RC94-843)
Zinc



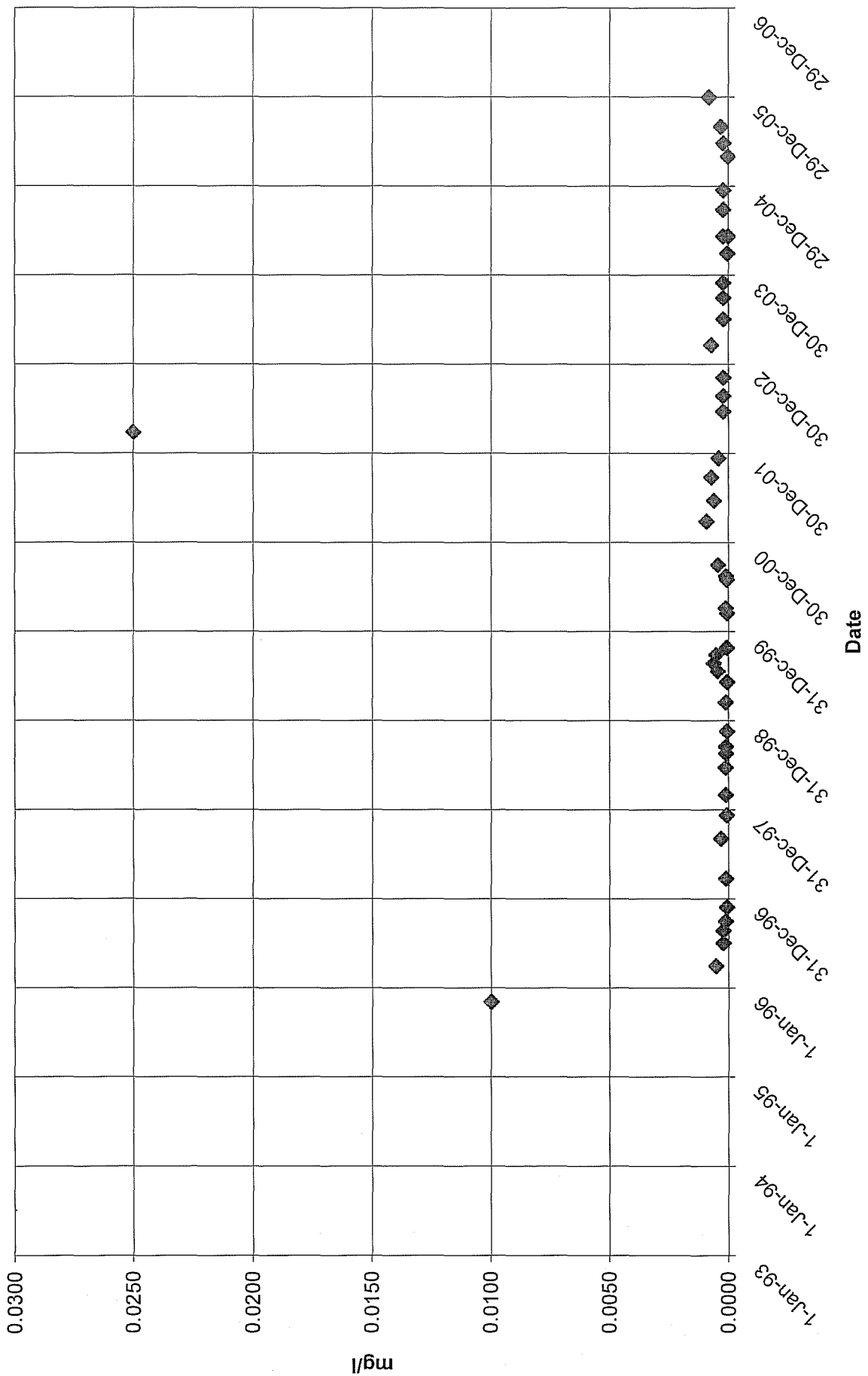
Brewery Creek Mine

BC-19 (Piezometer RC94-843) Selenium



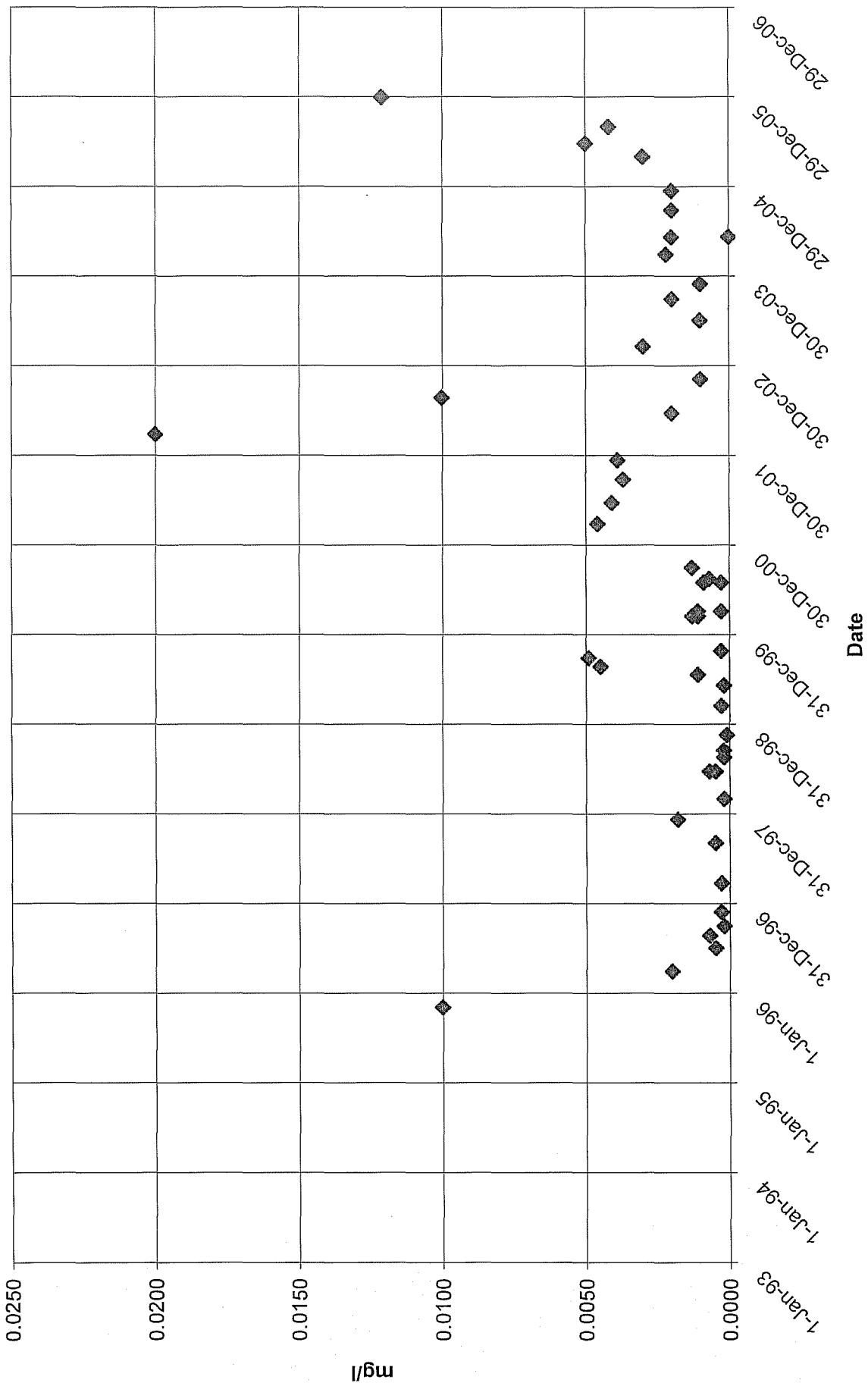
Brewery Creek Mine

BC-21
Cadmium



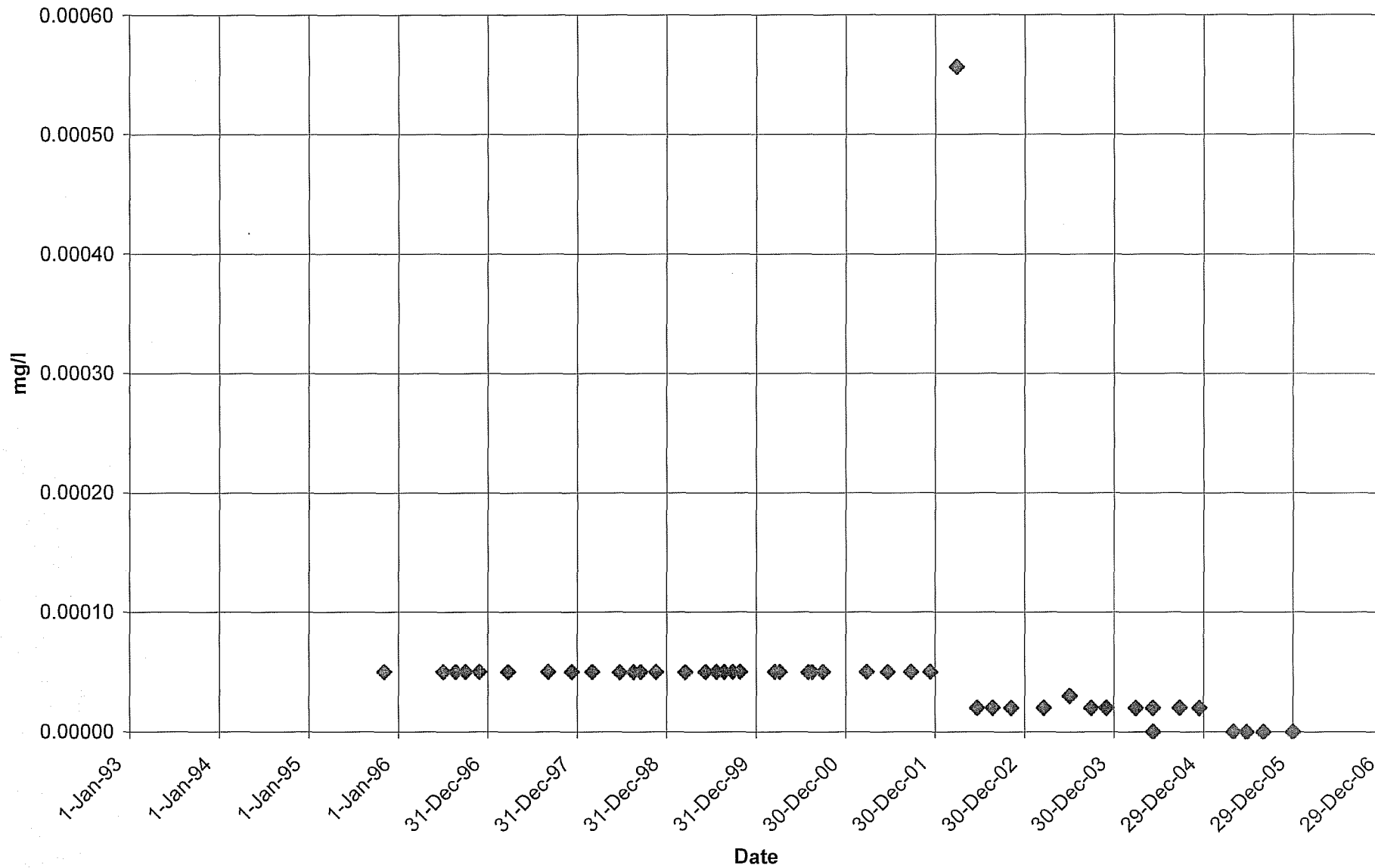
Brewery Creek Mine

BC-21
Copper



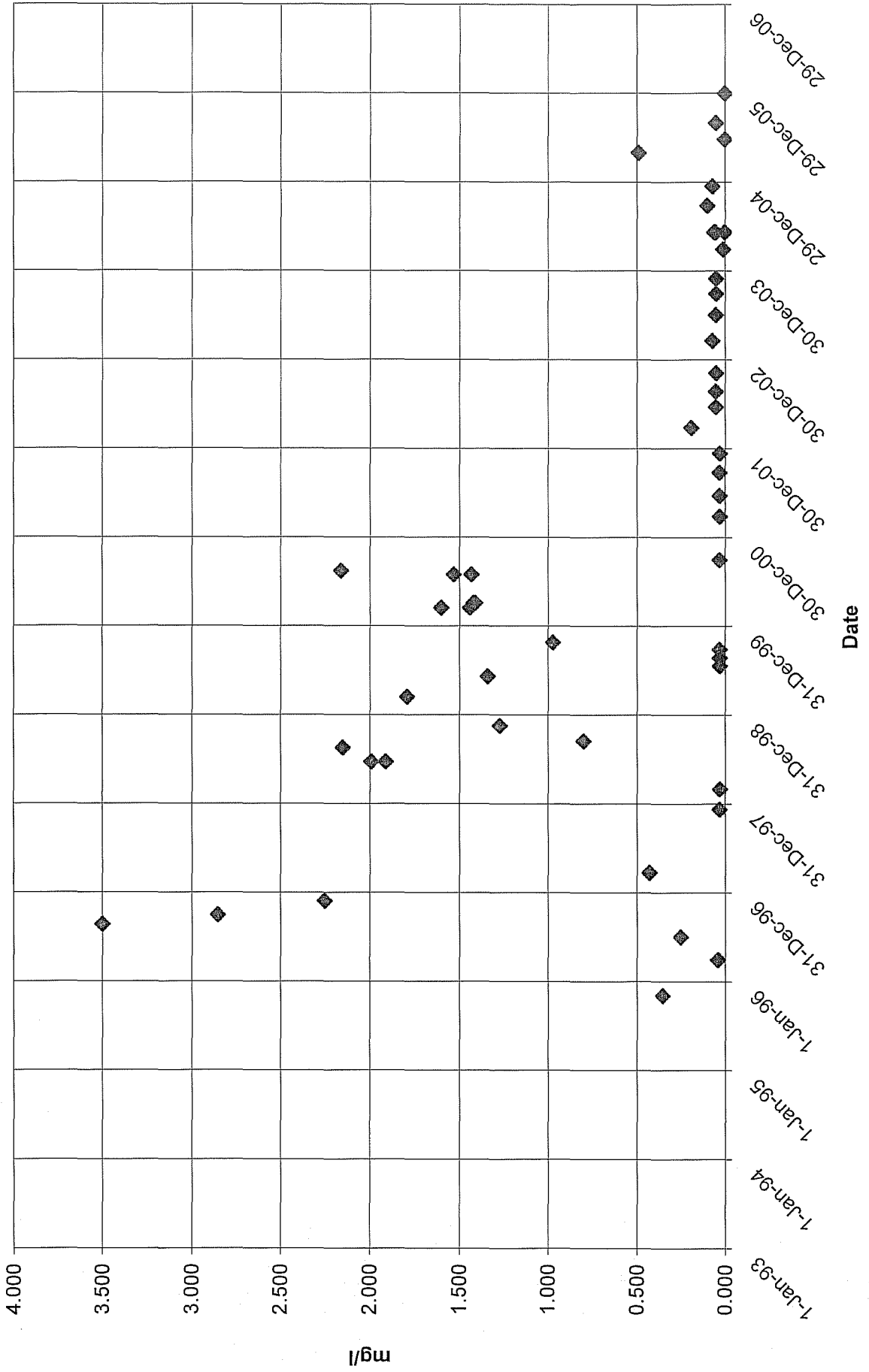
Brewery Creek Mine

BC-21
Mercury



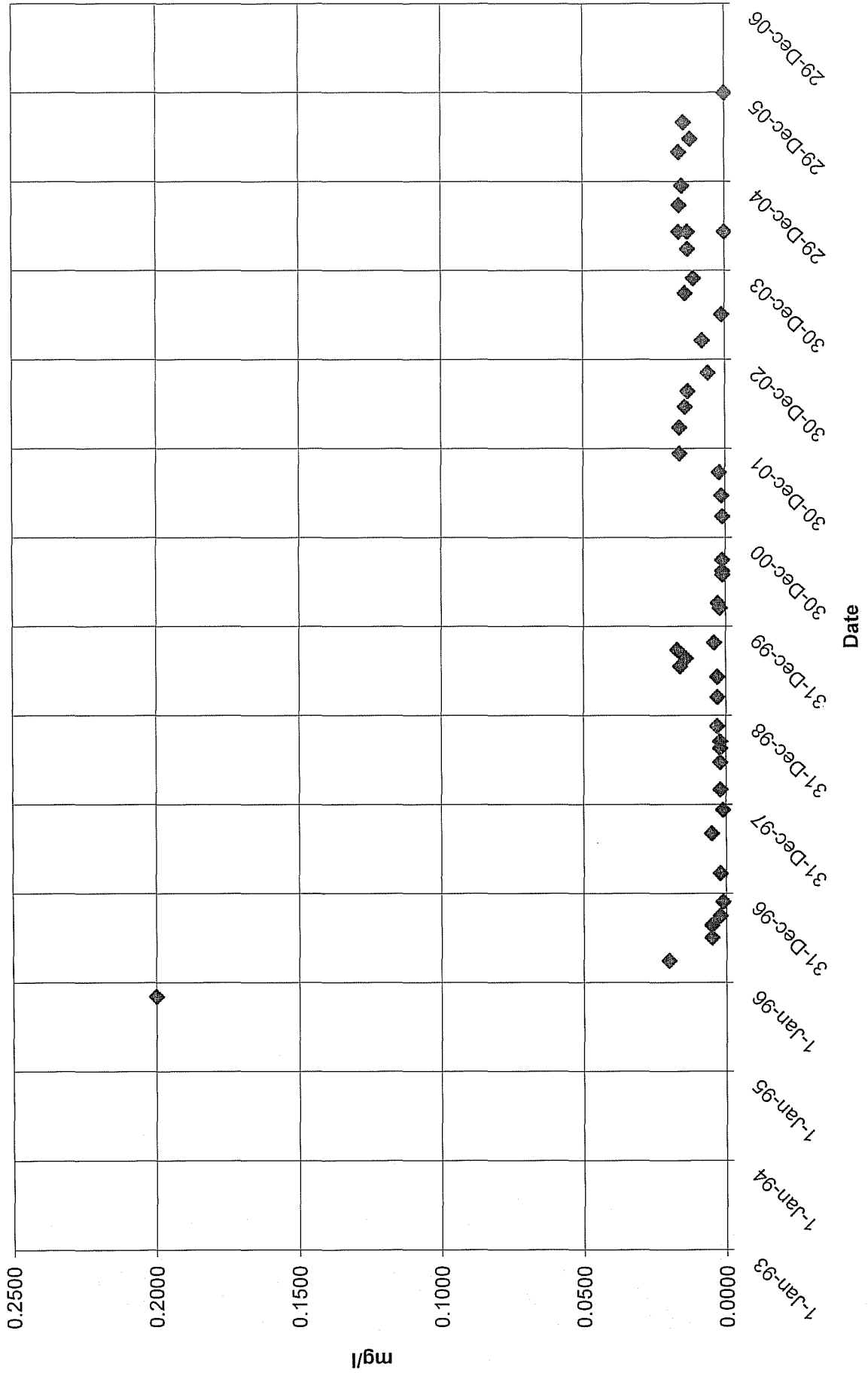
Brewery Creek Mine

BC-21
Iron



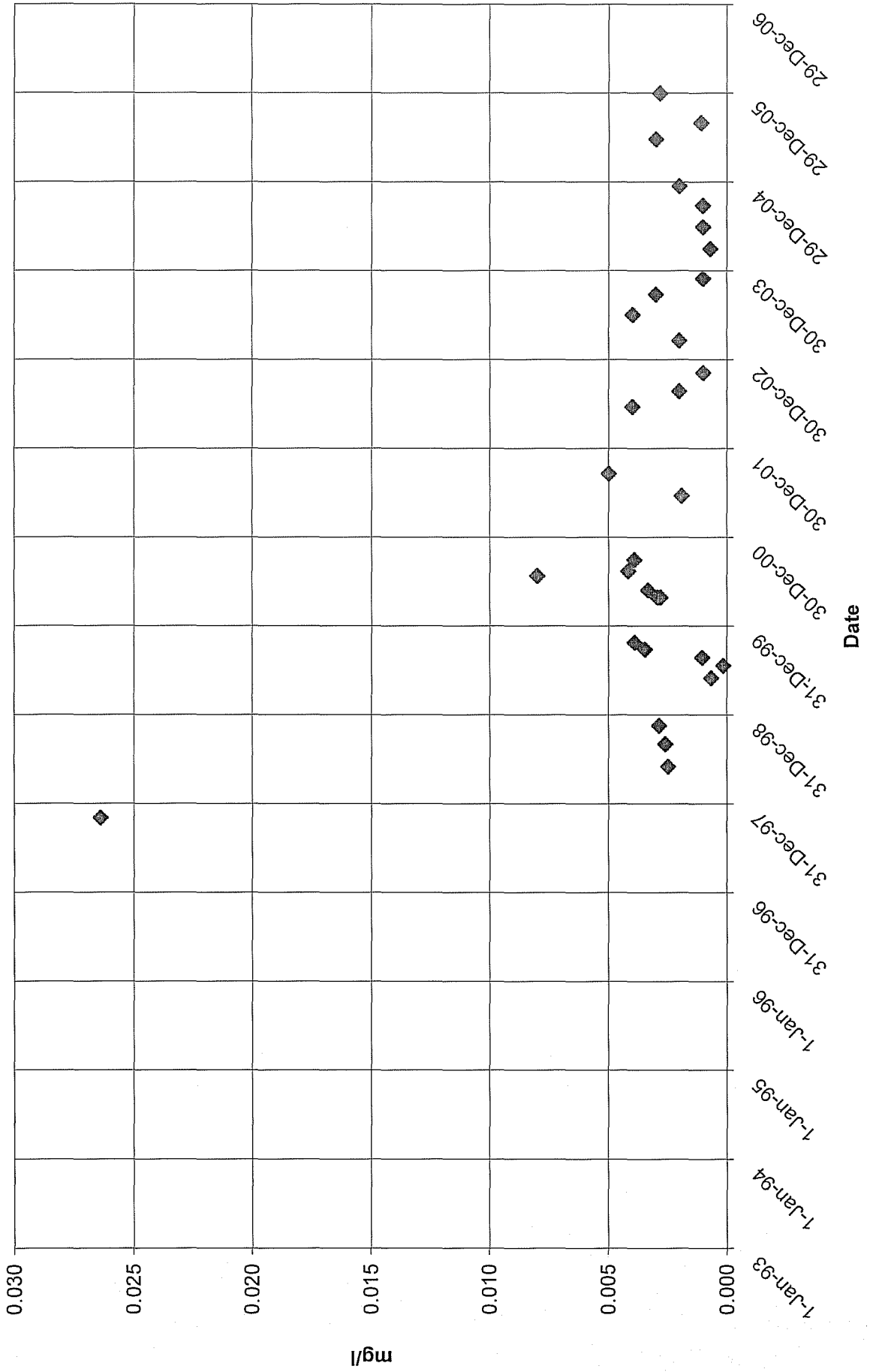
Brewery Creek Mine

BC-21
Selenium

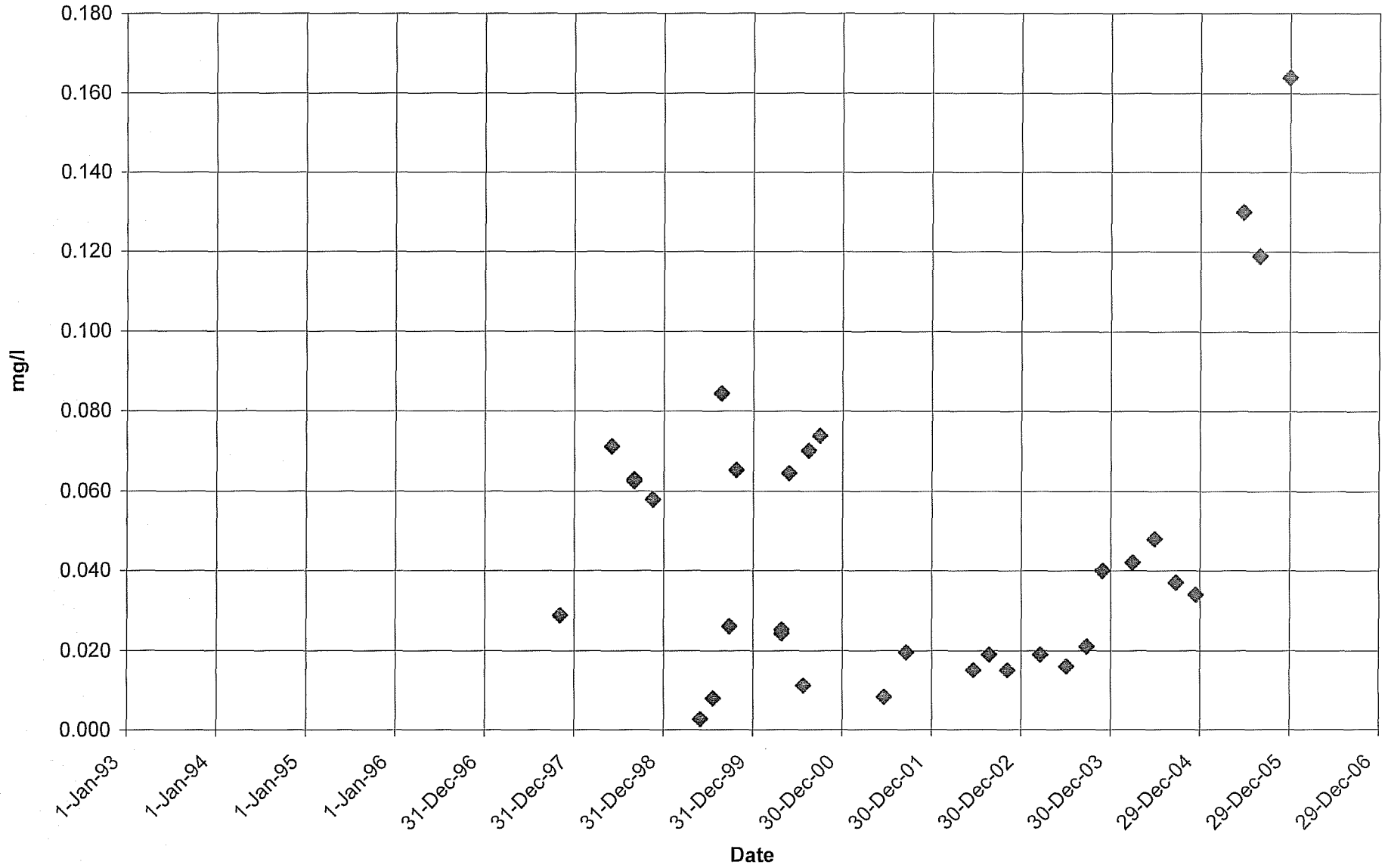


Brewery Creek Mine

BC-27
Antimony

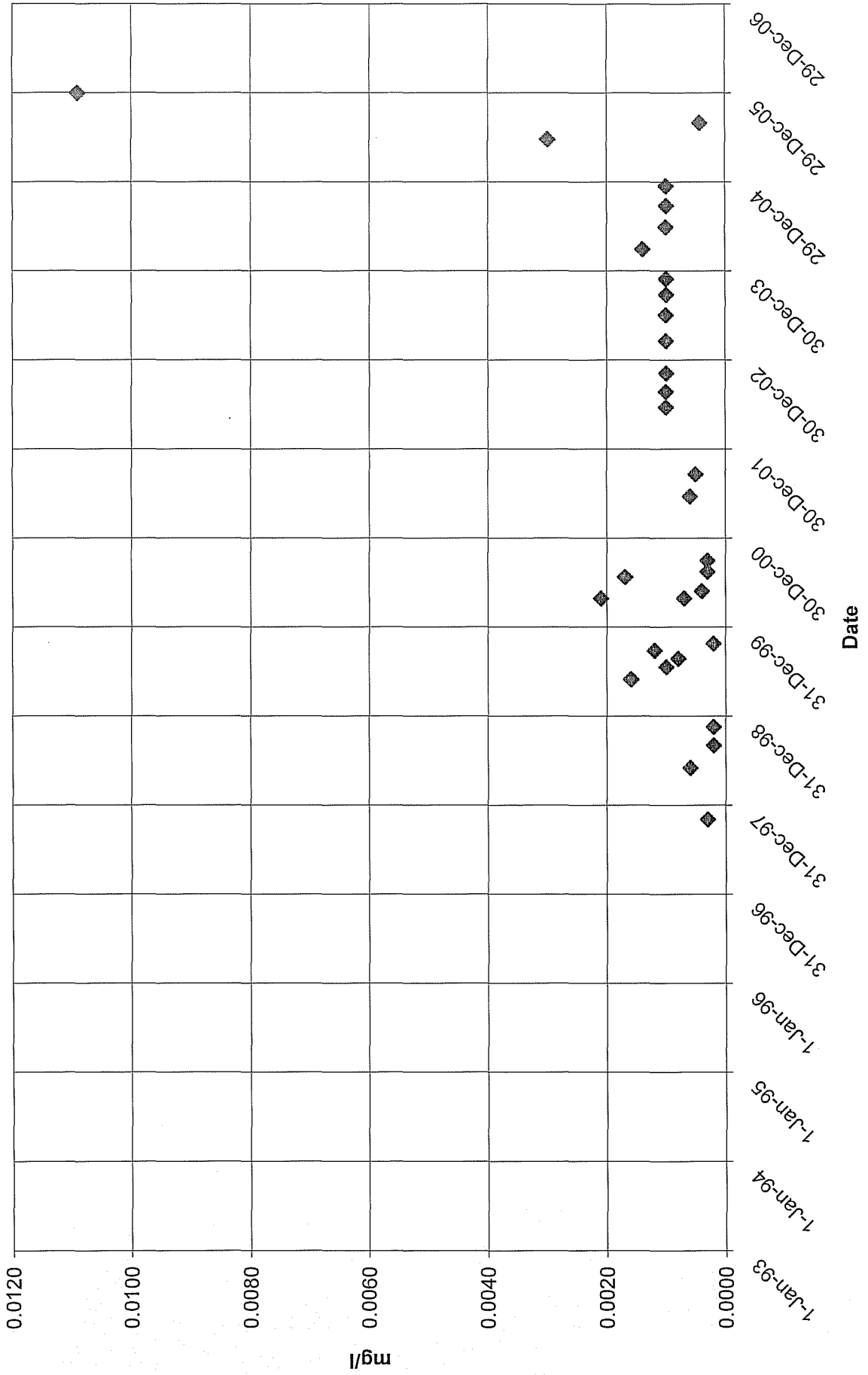


BC-27
Arsenic



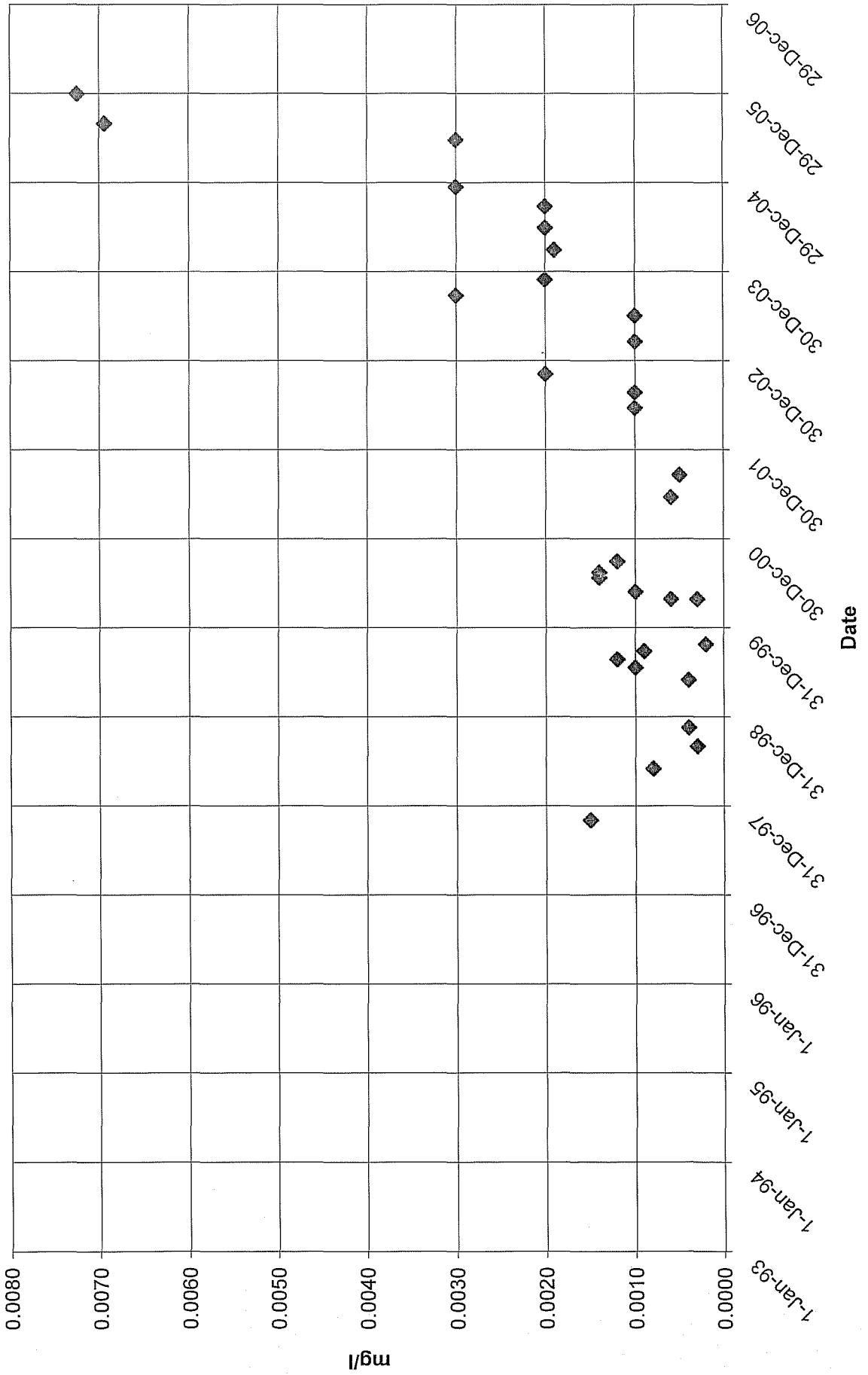
Brewery Creek Mine

BC-27
Copper



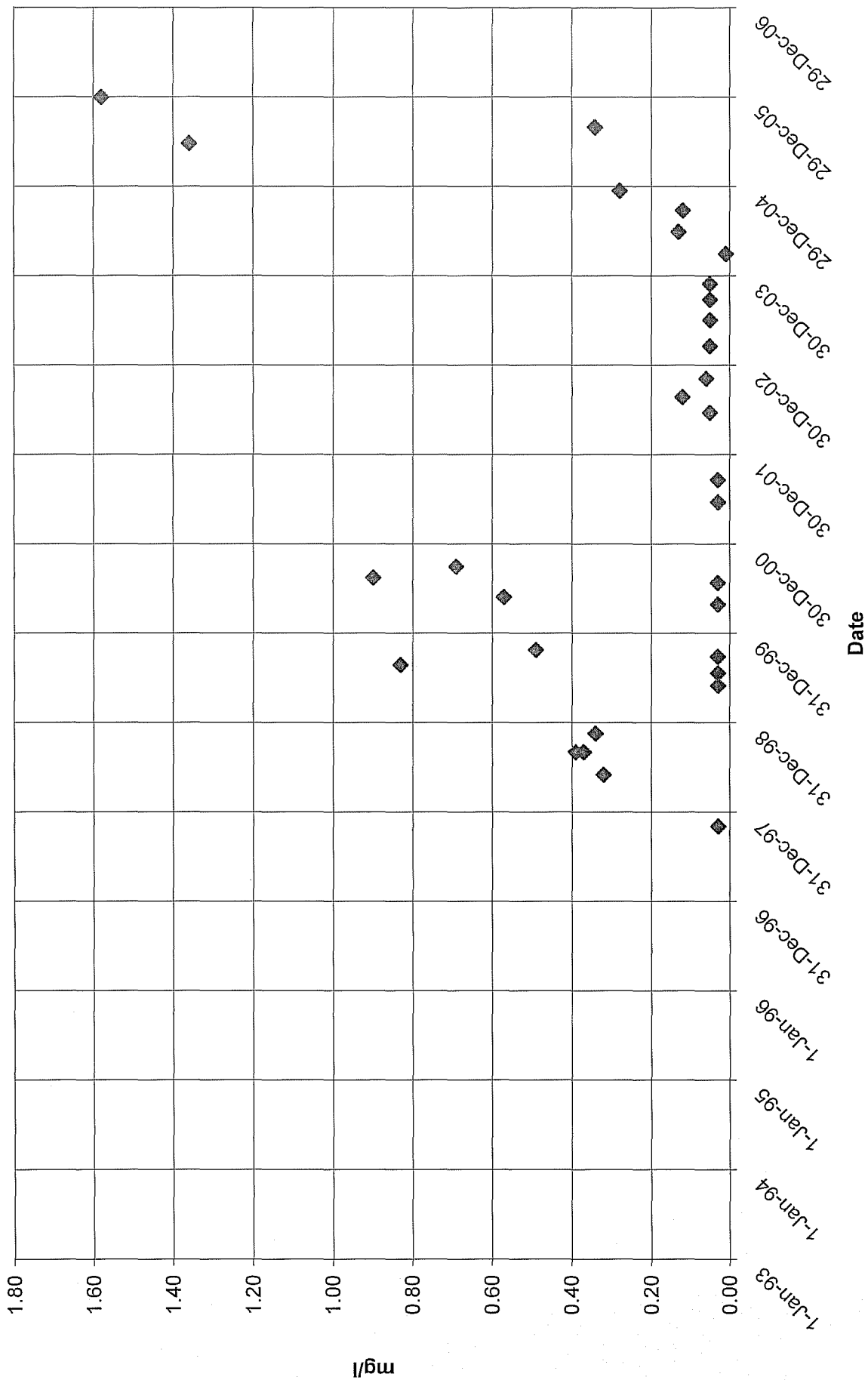
Brewery Creek Mine

BC-27
Nickel



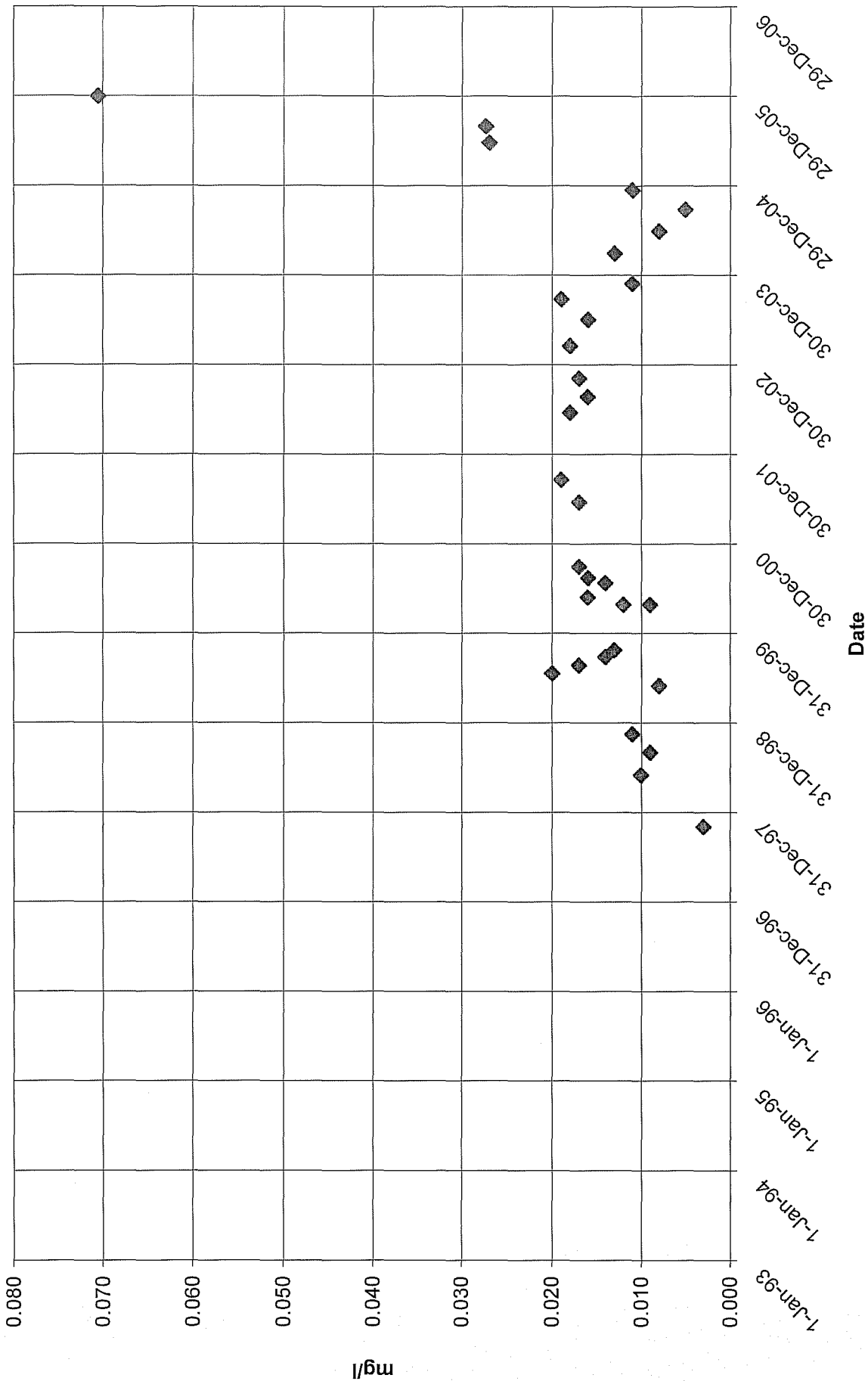
Brewery Creek Mine

BC-27
Iron

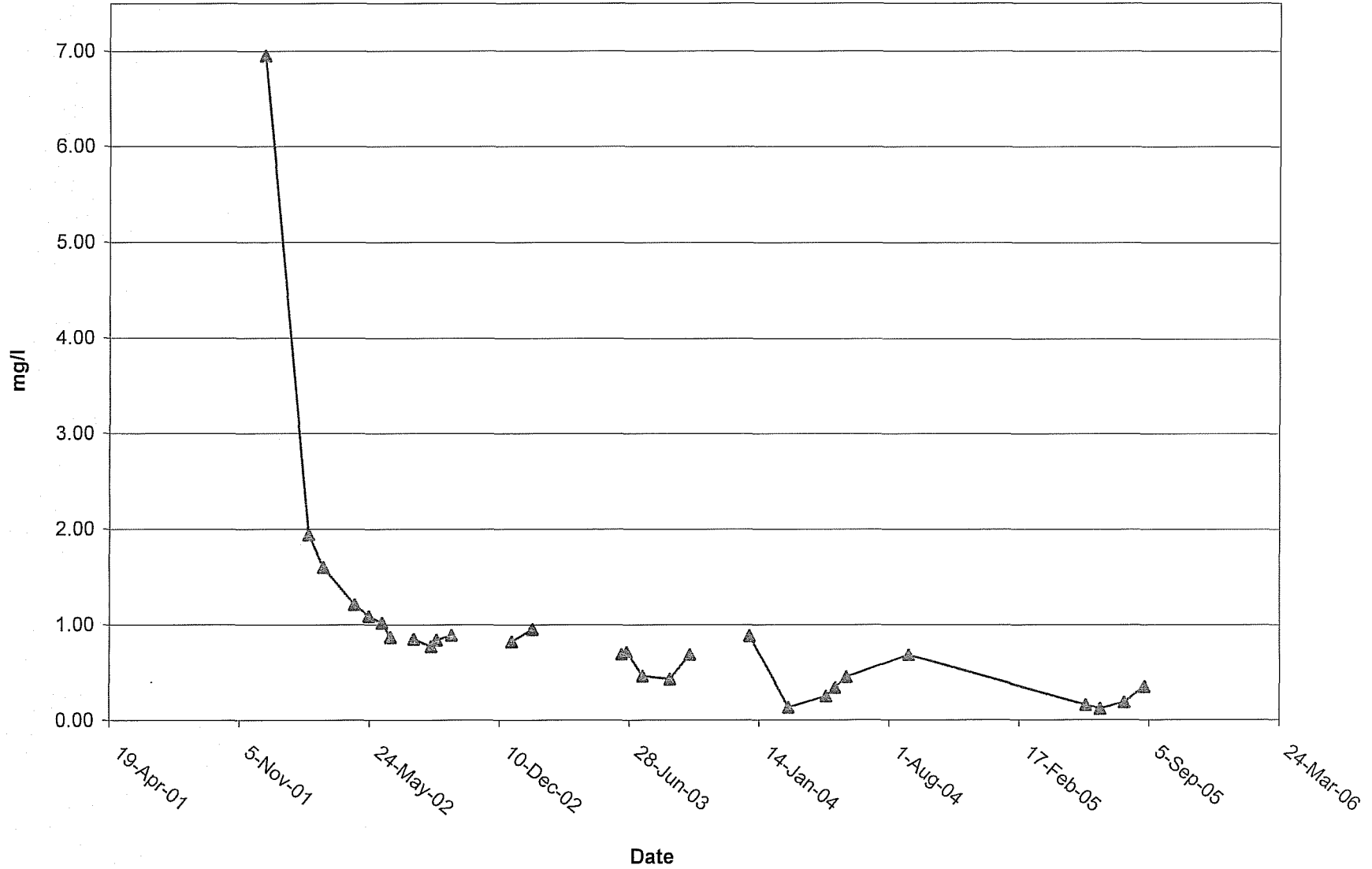


Brewery Creek Mine

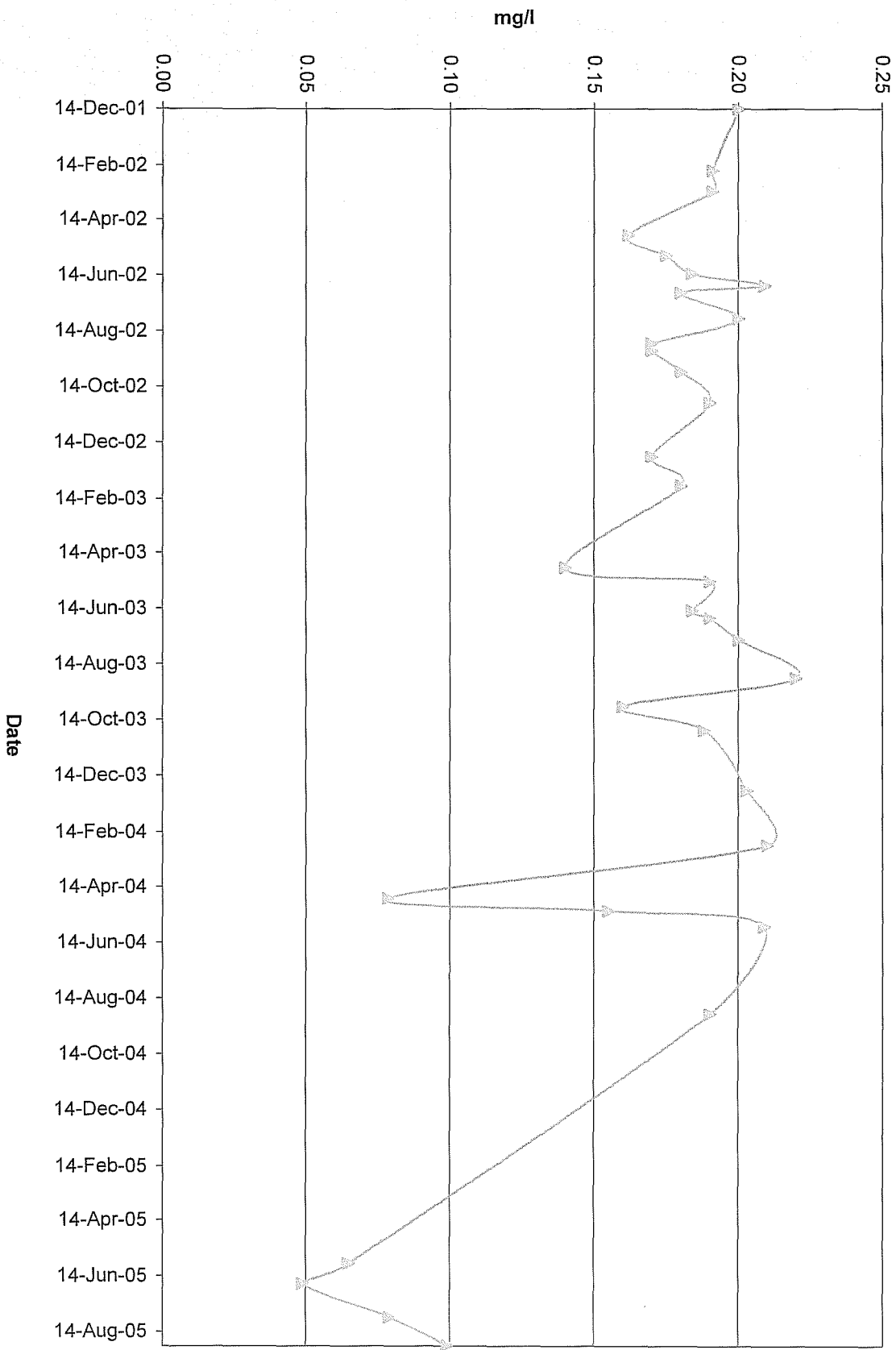
BC-27
Zinc



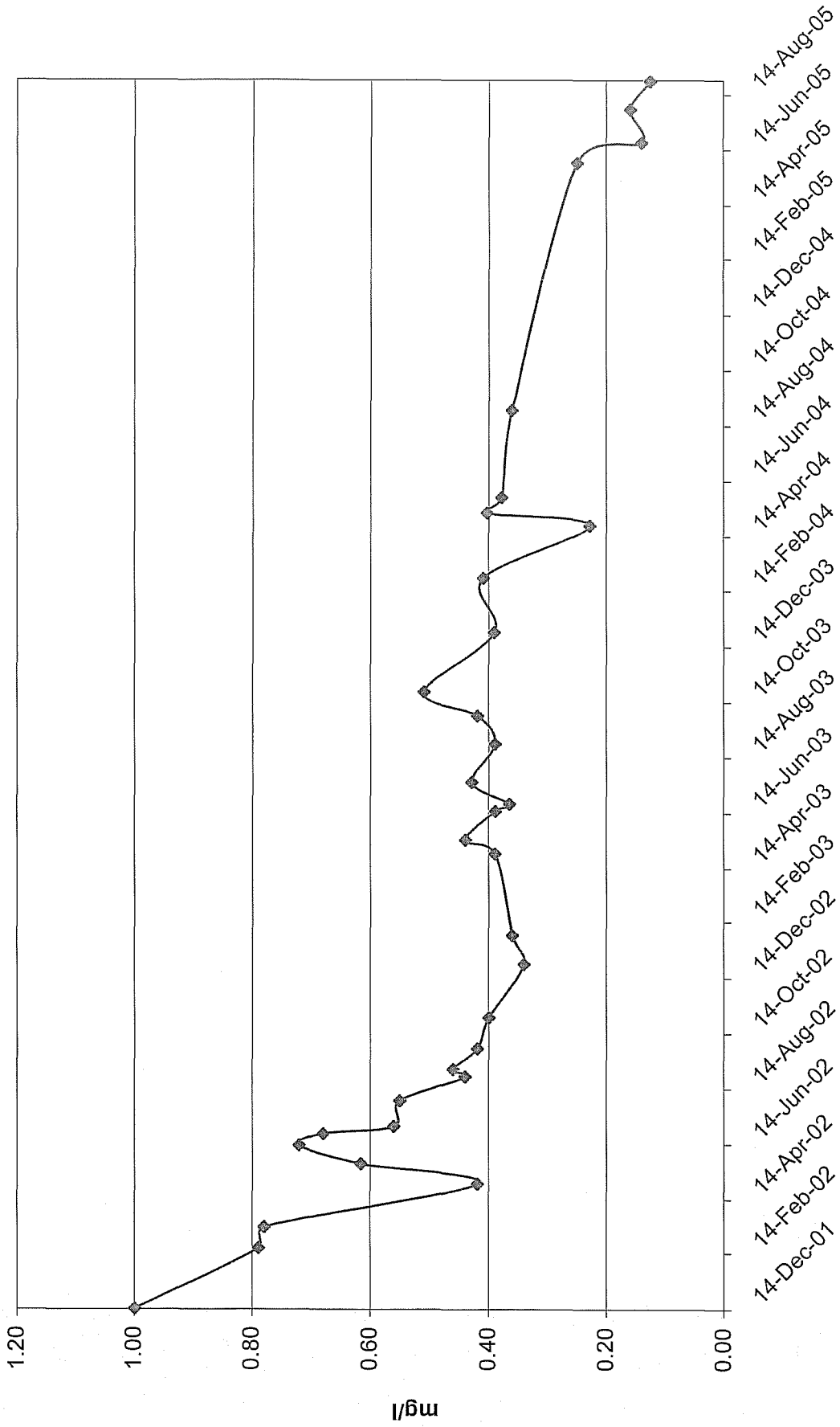
BC-28a (Heap Effluent)
Total Cyanide



BC-28a (Heap Effluent)
Selenium

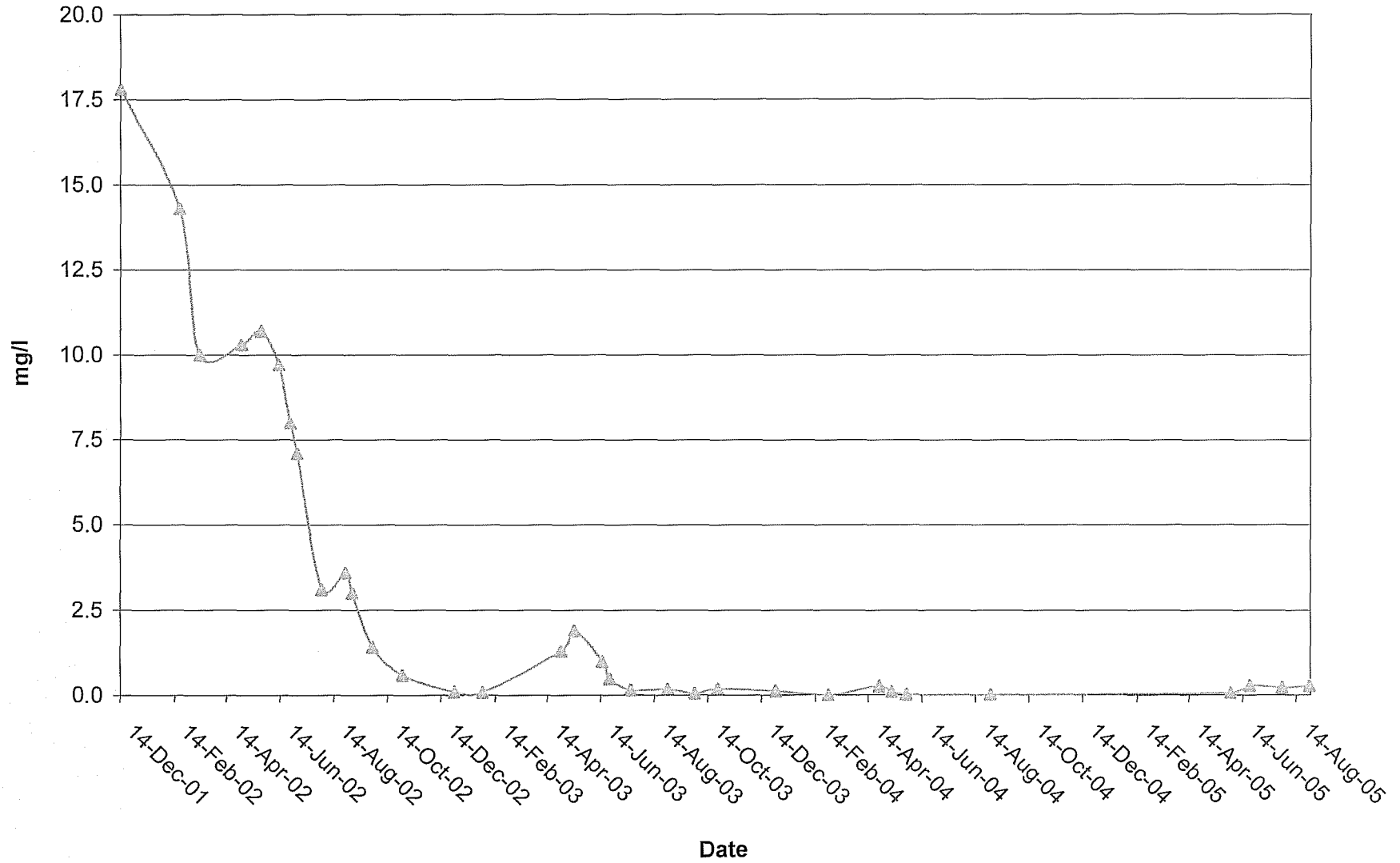


BC-28a (Heap Effluent)
Arsenic



Date

BC-28a (Heap Effluent)
Ammonia



Appendix D

BENTHIC MONITORING

Appendix E
STREAM SEDIMENT
QUALITY

Stream Sediment Analysis: 35 Element Ultratrace ICP Scan - August 2005

Sed. Stn. BC Stn.		W05: Laura Ck. above Ditch Rd. BC-1					W15: Carolyn Ck. above Laura Ck. BC-2					W04B: Laura Ck. above Carolyn Ck. BC-3				
		A	B	C	Mean	St. dev.	A	B	C	Mean	St. dev.	A	B	C	Mean	St. dev.
Ag	ppm	0.35					0.14					0.11				
Al	%	1.54					1.33					1.42				
As	ppm	40.90					12.80					24.30				
Au	ppb	23.90					1.00					< 0.5				
B	ppm	< 1					< 1					< 1				
Ba	ppm	692.00					647.00					609.00				
Bi	ppm	0.37					0.18					0.21				
Ca	%	1.66					0.67					0.78				
Cd	ppm	2.49					0.61					0.73				
Co	ppm	17.20					11.60					14.30				
Cr	ppm	39.40					28.60					32.90				
Cu	ppm	62.50					30.50					35.80				
Fe	%	3.31					2.50					2.88				
Hg	ppb	131.00					73.00					80.00				
K	%	0.12					0.10					0.17				
La	ppm	22.40					20.30					26.60				
Mg	%	0.61					0.38					0.61				
Mn	ppm	1030.00					401.00					655.00				
Mo	ppm	2.24					1.18					1.52				
Na	%	0.01					0.01					0.01				
Ni	ppm	59.40					29.30					38.20				
P	%	0.08					0.05					0.06				
Pb	ppm	19.10					16.20					16.60				
Sb	ppm	3.56					1.56					4.88				
Se	ppm	3.50					1.60					1.40				
Sr	ppm	108.00					46.00					65.70				
Th	ppm	5.00					4.00					8.20				
Ti	%	0.06					0.04					0.07				
Tl	ppm	0.20					0.12					0.19				
U	ppm	4.20					1.90					6.70				
V	ppm	92.00					58.00					62.00				
W	ppm	0.70					0.40					0.10				
Zn	ppm	192.00					84.40					129.00				
LOI	%	25.07					13.59					11.20				

LOI Loss On Ignition

Brewery Creek Mine

Stream Sediment Analysis: 35 Element Ultratrace ICP Scan - August 2005

Sed. Stn. BC Stn.		W13: Lucky Ck. downstream of Lucky Pit BC-4					W11: Pacific Ceek upstream from Lee Creek BC-5					W09: South Klondike down from confluence with Lee Creek: BC-6				
		A	B	C	Mean	Std. dev.	A	B	C	Mean	Std. dev.	A	B	C	Mean	Std. dev.
Ag	ppm	0.21					0.36					0.17				
Al	%	1.41					1.63					1.33				
As	ppm	69.80					13.70					13.30				
Au	ppb	6.40					4.20					< 0.5				
B	ppm	< 1					< 1					< 1				
Ba	ppm	1180.00					855.00					961.00				
Bi	ppm	0.20					0.16					0.10				
Ca	%	0.88					0.95					0.61				
Cd	ppm	1.52					2.91					1.25				
Co	ppm	14.50					14.50					11.70				
Cr	ppm	33.90					39.90					31.80				
Cu	ppm	41.00					51.30					38.00				
Fe	%	3.53					2.81					2.45				
Hg	ppb	377.00					346.00					134.00				
K	%	0.19					0.17					0.20				
La	ppm	24.80					18.20					20.90				
Mg	%	0.64					0.55					0.52				
Mn	ppm	633.00					1110.00					501.00				
Mo	ppm	3.42					2.40					2.56				
Na	%	0.01					0.01					0.01				
Ni	ppm	46.00					66.20					45.10				
P	%	0.08					0.09					0.12				
Pb	ppm	29.30					13.20					11.50				
Sb	ppm	7.20					2.28					0.97				
Se	ppm	1.90					3.30					1.60				
Sr	ppm	91.80					71.70					63.30				
Th	ppm	5.70					3.60					4.50				
Ti	%	0.05					0.05					0.06				
Tl	ppm	0.32					0.22					0.12				
U	ppm	1.70					2.00					2.30				
V	ppm	102.00					109.00					101.00				
W	ppm	< 0.1					< 0.1					< 0.1				
Zn	ppm	211.00					385.00					231.00				
LOI	%	6.49					15.71					6.50				

LOI Loss On Ignition

Stream Sediment Analysis: 35 Element Ultratrace ICP Scan - August 2005

Sed. Stn. BC Stn.		W02: Golden Ck. above the Klondike BC-31					W03: Laura Ck. below Exploration Camp BC-32					W06A: Lee Ck. above Pacific Ck. BC-33				
		A	B	C	Mean	Std. dev.	A	B	C	Mean	Std. dev.	A	B	C	Mean	Std. dev.
Ag	ppm	0.27					0.34					0.35				
Al	%	1.21					0.68					1.32				
As	ppm	36.30					157.00					9.00				
Au	ppb	< 0.5					41.90					< 0.5				
B	ppm	< 1					< 1					< 1				
Ba	ppm	1210.00					770.00					855.00				
Bi	ppm	0.23					0.16					0.09				
Ca	%	0.76					0.33					0.85				
Cd	ppm	2.25					1.72					2.60				
Co	ppm	12.40					9.90					12.10				
Cr	ppm	32.40					17.40					36.10				
Cu	ppm	39.70					48.30					53.00				
Fe	%	2.63					2.38					2.74				
Hg	ppb	247.00					768.00					223.00				
K	%	0.21					0.15					0.17				
La	ppm	20.10					13.70					17.20				
Mg	%	0.46					0.13					0.60				
Mn	ppm	618.00					475.00					481.00				
Mo	ppm	2.97					6.17					3.86				
Na	%	0.01					0.01					0.01				
Ni	ppm	56.80					36.70					58.60				
P	%	0.10					0.05					0.16				
Pb	ppm	17.70					22.80					12.10				
Sb	ppm	6.64					42.90					1.39				
Se	ppm	2.20					3.40					2.40				
Sr	ppm	82.80					65.80					78.30				
Th	ppm	4.30					3.10					3.60				
Ti	%	0.03					< 0.01					0.08				
Tl	ppm	0.20					0.25					0.12				
U	ppm	2.00					1.90					2.70				
V	ppm	107.00					65.00					126.00				
W	ppm	< 0.1					< 0.1					< 0.1				
Zn	ppm	297.00					184.00					335.00				
LOI	%	9.54					8.68					8.31				

LOI Loss On Ignition

Brewery Creek Mine

Stream Sediment Analysis: 35 Element Ultratrace ICP Scan - August 2005

Sed. Stn. BC Stn.		W07: Lee Ck. at the Ditch Rd. BC-34					W14: Pacific Ck. below Mine Camp BC-35					W16: Golden Ck. above Lucky Ck. BC-36				
		A	B	C	Mean	Std. dev.	A	B	C	Mean	Std. dev.	A	B	C	Mean	Std. dev.
Ag	ppm	0.31					0.35					0.10				
Al	%	1.22					0.97					1.17				
As	ppm	9.20					10.90					22.30				
Au	ppb	< 0.5					< 0.5					5.20				
B	ppm	< 1					< 1					< 1				
Ba	ppm	813.00					541.00					958.00				
Bi	ppm	0.08					0.16					0.09				
Ca	%	0.84					0.82					0.76				
Cd	ppm	1.99					1.85					1.88				
Co	ppm	13.00					9.80					15.70				
Cr	ppm	36.40					25.60					37.90				
Cu	ppm	48.20					51.00					26.70				
Fe	%	2.55					2.22					2.65				
Hg	ppb	204.00					179.00					547.00				
K	%	0.15					0.15					0.11				
La	ppm	17.10					13.40					15.60				
Mg	%	0.60					0.37					0.59				
Mn	ppm	425.00					487.00					484.00				
Mo	ppm	3.73					4.31					1.60				
Na	%	0.01					0.01					0.01				
Ni	ppm	61.20					45.60					61.80				
P	%	0.18					0.11					0.08				
Pb	ppm	11.30					11.10					8.36				
Sb	ppm	2.67					1.44					2.61				
Se	ppm	2.30					2.40					1.90				
Sr	ppm	82.60					75.90					58.60				
Th	ppm	3.50					3.30					3.00				
Ti	%	0.07					0.02					0.04				
Tl	ppm	0.10					0.17					0.18				
U	ppm	2.80					2.40					1.30				
V	ppm	125.00					108.00					76.00				
W	ppm	< 0.1					< 0.1					0.20				
Zn	ppm	353.00					263.00					373.00				
LOI	%	7.06					9.39					10.68				

LOI Loss On Ignition

Brewery Creek Mine

Stream Sediment Analysis: 35 Element Ultratrace ICP Scan - August 2005

Sed. Stn. BC Stn.		W05A: Laura Ck. at the Ditch Rd. BC-37					W08: Klondike above Golden Ck. BC-38				
		A	B	C	Mean	Std. dev.	A	B	C	Mean	Std. dev.
Ag	ppm	0.23					0.05				
Al	%	1.44					1.16				
As	ppm	42.80					16.40				
Au	ppb	2.50					< 0.5				
B	ppm	< 1					< 1				
Ba	ppm	674.00					858.00				
Bi	ppm	0.24					0.12				
Ca	%	1.18					0.46				
Cd	ppm	1.73					0.98				
Co	ppm	16.80					11.00				
Cr	ppm	38.40					23.30				
Cu	ppm	50.90					25.90				
Fe	%	3.36					2.38				
Hg	ppb	123.00					85.00				
K	%	0.14					0.14				
La	ppm	22.40					21.90				
Mg	%	0.62					0.44				
Mn	ppm	891.00					554.00				
Mo	ppm	2.36					1.55				
Na	%	0.01					0.01				
Ni	ppm	55.00					34.00				
P	%	0.08					0.07				
Pb	ppm	20.00					12.20				
Sb	ppm	4.26					0.75				
Se	ppm	2.80					1.00				
Sr	ppm	86.00					46.50				
Th	ppm	7.10					5.30				
Ti	%	0.07					0.03				
Tl	ppm	0.20					0.11				
U	ppm	3.40					1.50				
V	ppm	94.00					54.00				
W	ppm	< 0.1					< 0.1				
Zn	ppm	188.00					168.00				
LOI	%	21.44					5.91				

LOI Loss On Ignition

Brewery Creek Mine

Stream Sediment Analysis: 35 Element Ultratrace ICP Scan - August 2005

Sed. Stn. BC Stn.		W39: Laura Ck. at Confluence of South Klondike BC-39					W53: Laura Creek 100m downstream of Ditch Road BC-53				
		A	B	C	Mean	Std. dev.	A	B	C	Mean	Std. dev.
Ag	ppm	0.27					0.08				
Al	%	1.70					1.25				
As	ppm	104.00					21.80				
Au	ppb	37.30					< 0.5				
B	ppm	< 1					< 1				
Ba	ppm	591.00					523.00				
Bi	ppm	0.24					0.13				
Ca	%	0.72					0.80				
Cd	ppm	1.61					1.06				
Co	ppm	14.60					11.00				
Cr	ppm	33.10					27.90				
Cu	ppm	35.40					29.50				
Fe	%	3.02					2.28				
Hg	ppb	417.00					71.00				
K	%	0.17					0.11				
La	ppm	20.30					18.60				
Mg	%	0.47					0.49				
Mn	ppm	1320.00					515.00				
Mo	ppm	3.38					1.25				
Na	%	0.01					0.01				
Ni	ppm	42.50					35.50				
P	%	0.08					0.06				
Pb	ppm	22.70					14.70				
Sb	ppm	10.90					2.17				
Se	ppm	3.10					1.40				
Sr	ppm	66.40					57.80				
Th	ppm	4.00					4.60				
Ti	%	0.02					0.06				
Tl	ppm	0.30					0.17				
U	ppm	3.40					1.90				
V	ppm	93.00					65.00				
W	ppm	< 0.1					< 0.1				
Zn	ppm	218.00					122.00				
LOI	%	13.15					10.38				

LOI Loss On Ignition

Brewery Creek Mine

Stream Sediment Analysis: GRAIN SIZE DISTRIBUTION - Laura Creek & Carolyn Creek Monitoring Stations

	W03: Laura Ck. below Exploration Camp BC-32 August 29, 2005			W04B: Laura Ck. above Carolyn Ck. BC-3 August 29, 2005			W15: Carolyn Ck. above Laura Ck. BC-2 August 29, 2005		
	A % Weight	B % Weight	C % Weight	A % Weight	B % Weight	C % Weight	A % Weight	B % Weight	C % Weight
ASTM Mesh +12	3.42%			0.27%			0.36%		
ASTM Mesh -12+20	9.91%			2.27%			1.03%		
ASTM Mesh -20+40	7.07%			2.34%			6.23%		
ASTM Mesh -40+60	5.26%			2.30%			5.96%		
ASTM Mesh -60+100	6.45%			3.28%			6.19%		
ASTM Mesh -100+140	2.41%			1.89%			5.73%		
ASTM Mesh -140+270	25.55%			53.01%			39.01%		
ASTM Mesh -270	39.93%			34.63%			35.49%		
Total Percentage	100.00%			99.99%			100.00%		

	W05: Laura Ck. above Ditch Rd. BC-1 August 29, 2005			W05A: Laura Ck. at the Ditch Rd. BC-37 August 29, 2005		
	A % Weight	B % Weight	C % Weight	A % Weight	B % Weight	C % Weight
ASTM Mesh +12	0.35%			0.40%		
ASTM Mesh -12+20	2.56%			7.30%		
ASTM Mesh -20+40	4.99%			5.28%		
ASTM Mesh -40+60	5.39%			3.62%		
ASTM Mesh -60+100	6.19%			8.16%		
ASTM Mesh -100+140	0.87%			1.30%		
ASTM Mesh -140+270	29.09%			45.25%		
ASTM Mesh -270	50.55%			28.70%		
Total Percentage	99.99%			100.01%		

Brewery Creek Mine

Stream Sediment Analysis: GRAIN SIZE DISTRIBUTION - Laura Creek & Carolyn Creek Monitoring Stations

	Laura Creek 50m upstream S. Klondike BC-39 August 29, 2005			Laura Creek Wetlands BC-53 August 29, 2005		
	A % Weight	B % Weight	C % Weight	A % Weight	B % Weight	C % Weight
ASTM Mesh +12	4.00%			0.46%		
ASTM Mesh -12+20	12.36%			7.28%		
ASTM Mesh -20+40	13.02%			5.46%		
ASTM Mesh -40+60	10.76%			4.60%		
ASTM Mesh -60+100	14.07%			6.93%		
ASTM Mesh -100+140	22.84%			7.04%		
ASTM Mesh -140+270	12.54%			32.57%		
ASTM Mesh -270	10.42%			35.66%		
Total Percentage	100.01%			100.00%		

Brewery Creek Mine

Stream Sediment Analysis: GRAIN SIZE DISTRIBUTION - Golden Creek, Lucky Creek & Klondike River Monitoring Stations

	W16: Golden Ck. above Lucky Ck. BC-36 August 29, 2005			W13: Lucky Ck. downstream of Lucky Pit BC-4 August 29, 2005			W02: Golden Ck. above the Klondike BC-31 August 29, 2005		
	A	B	C	A	B	C	A	B	C
	% Weight	% Weight	% Weight	% Weight	% Weight	% Weight	% Weight	% Weight	% Weight
ASTM Mesh +12	8.20%			24.24%			26.17%		
ASTM Mesh -12+20	8.01%			13.16%			22.75%		
ASTM Mesh -20+40	6.33%			11.49%			33.24%		
ASTM Mesh -40+60	9.06%			4.97%			9.07%		
ASTM Mesh -60+100	14.63%			1.88%			2.97%		
ASTM Mesh -100+140	8.87%			1.27%			1.21%		
ASTM Mesh -140+270	26.19%			23.59%			2.70%		
ASTM Mesh -270	18.71%			19.40%			1.90%		
Total Percentage	100.00%			100.00%			100.01%		

	W08: Klondike River above Golden Ck. BC-38 August 29, 2005			W09: Klondike Rive below Lee Ck. BC-6 August 29, 2005		
	A	B	C	A	B	C
	% Weight	% Weight	% Weight	% Weight	% Weight	% Weight
ASTM Mesh +12	6.48%			55.12%		
ASTM Mesh -12+20	18.61%			12.07%		
ASTM Mesh -20+40	51.57%			16.55%		
ASTM Mesh -40+60	18.93%			6.69%		
ASTM Mesh -60+100	2.34%			3.72%		
ASTM Mesh -100+140	0.49%			1.37%		
ASTM Mesh -140+270	0.76%			2.13%		
ASTM Mesh -270	0.82%			2.36%		
Total Percentage	100.00%			100.01%		

Stream Sediment Analysis: GRAIN SIZE DISTRIBUTION - Pacific Creek Monitoring Stations

	W14: Pacific Ck. below Mine Camp BC-35 August 29, 2005			W11: Pacific Ck. above Lee Ck. BC-5 August 29, 2005		
	A % Weight	B % Weight	C % Weight	A % Weight	B % Weight	C % Weight
ASTM Mesh +12	33.28%			24.63%		
ASTM Mesh -12+20	17.65%			18.99%		
ASTM Mesh -20+40	21.95%			19.40%		
ASTM Mesh -40+60	8.87%			6.56%		
ASTM Mesh -60+100	4.04%			3.07%		
ASTM Mesh -100+140	2.52%			1.97%		
ASTM Mesh -140+270	5.57%			8.62%		
ASTM Mesh -270	6.13%			16.76%		
Total Percentage	100.01%			100.00%		

Stream Sediment Analysis: GRAIN SIZE DISTRIBUTION - Lee Creek Monitoring Stations

	W06A: Lee Creek above Pacific Creek BC-33 August 29, 2005			W07: Lee Creek at the Ditch Road BC-34 August 29, 2005		
	A % Weight	B % Weight	C % Weight	A % Weight	B % Weight	C % Weight
ASTM Mesh +12	21.84%			5.19%		
ASTM Mesh -12+20	19.86%			8.71%		
ASTM Mesh -20+40	25.78%			26.12%		
ASTM Mesh -40+60	15.54%			31.35%		
ASTM Mesh -60+100	3.92%			10.28%		
ASTM Mesh -100+140	1.48%			2.60%		
ASTM Mesh -140+270	3.12%			3.79%		
ASTM Mesh -270	8.46%			11.96%		
Total Percentage	100.00%			100.00%		

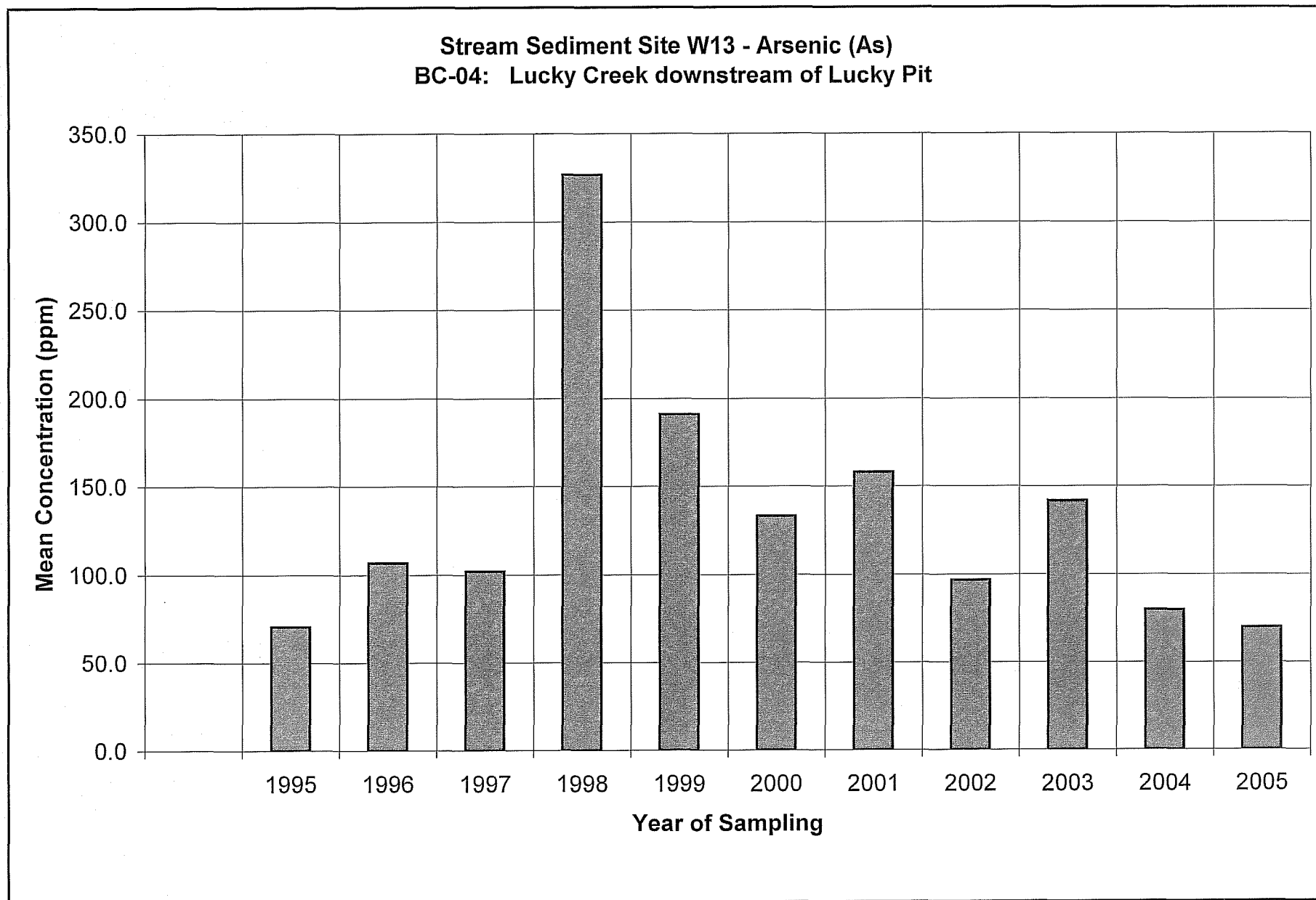
Stream Sediment Analysis: HISTORICAL COMPARISON

Lucky Ck. Monitoring Station													
W13													
BC-4													
			1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
As	ppm		70.6	106.7	101.9	326.5	191.0	132.9	157.9	96.6	141.5	79.7	69.8
Sb	ppm		16.4	19.7	24.0	92.4	34.9	28.1	34.6	16.3	7.9	8.9	7.2
Cd	ppm		2.0	2.3	1.3	2.5	1.8	1.5	1.7	1.6	1.6	1.4	1.5
Cu	ppm		33.8	28.7	33.5	39.1	49.1	29.9	38.9	28.0	33.9	24.3	41.0
Hg	ppm		0.3	1.0	1.9	1.2	1.0	1.1	1.2	0.7	0.9	0.5	0.4
Mo	ppm		4.0	4.7	7.2	6.5	5.1	5.3	6.6	4.2	5.9	3.9	3.4
Pb	ppm		23.7	34.0	48.5	62.5	47.0	35.3	40.7	32.5	46.0	29.1	29.3
Ni	ppm		37.4	46.7	30.0	54.0	41.0	31.3	39.3	32.8	39.2	46.3	46.0
Zn	ppm		216.0	307.0	170.6	298.4	237.0	158.1	213.4	190.4	240.8	194.8	211.0

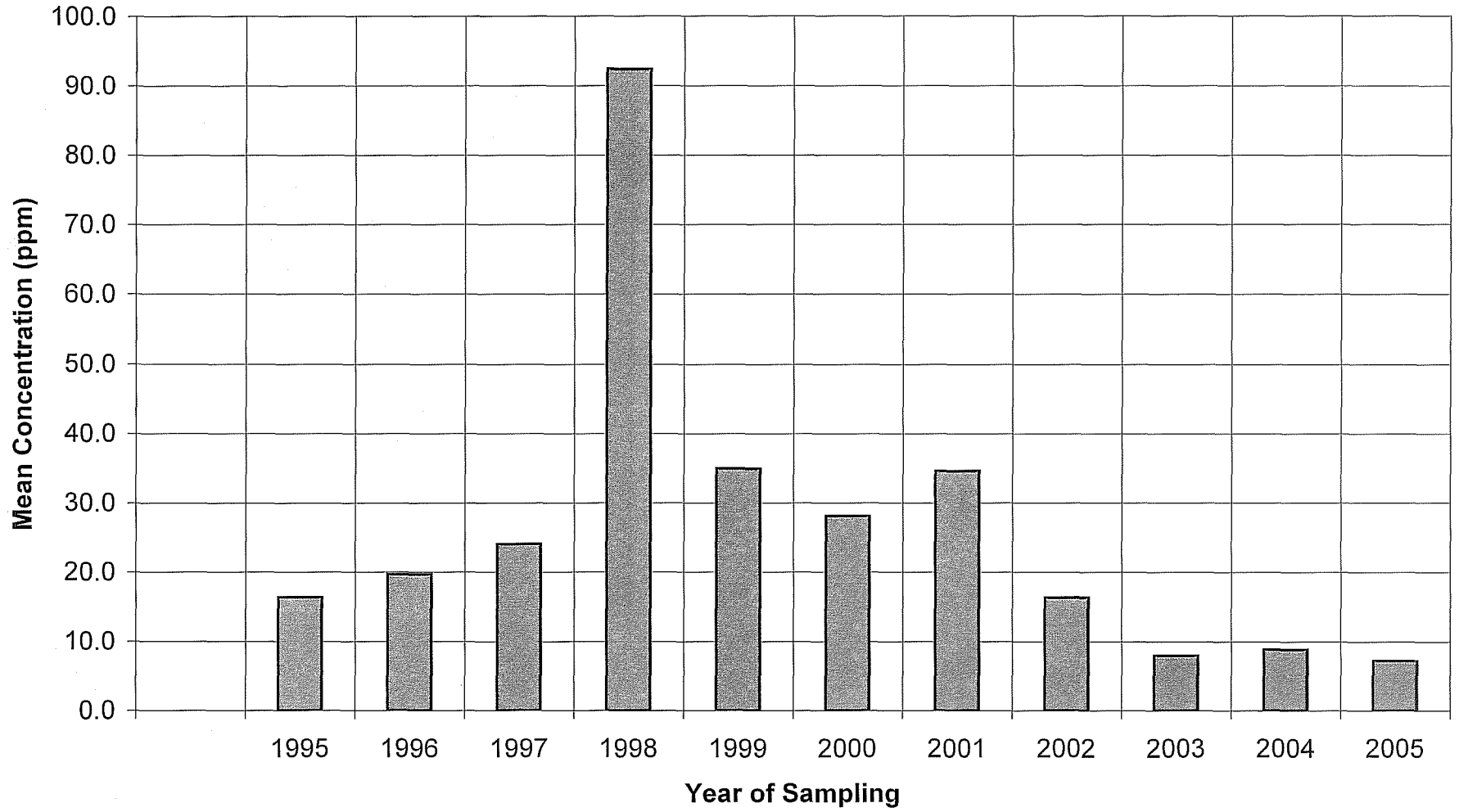
Golden Creek Monitoring Stations													
W16													
BC-36													
			1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
As	ppm		19.2	8.0	6.4	8.1	10.2	13.1	9.2	4.6	12.0	6.1	22.3
Sb	ppm		2.6	2.0	2.1	1.5	2.0	2.6	1.4	1.0	1.4	2.0	2.6
Cd	ppm		2.4	1.1	1.4	1.0	1.2	1.9	1.4	1.5	2.5	1.3	1.9
Cu	ppm		99.0	42.3	59.3	41.8	61.7	55.7	45.2	31.1	58.8	33.1	26.7
Hg	ppm		0.4	1.0	0.2	0.1	0.2	0.3	0.3	0.5	0.2	0.2	0.5
Mo	ppm		4.3	3.0	4.8	3.6	4.2	5.1	3.6	2.5	4.1	2.6	1.6
Pb	ppm			6.3	13.2	8.4	13.0	9.9	9.9	8.6	11.0	7.3	8.4
Ni	ppm		50.0	46.3	56.0	40.0	47.0	45.9	50.6	33.2	58.8	43.5	61.8
Zn	ppm		308.5	289.7	302.7	217.8	290.0	268.3	300.7	204.8	362.3	230.4	373.0

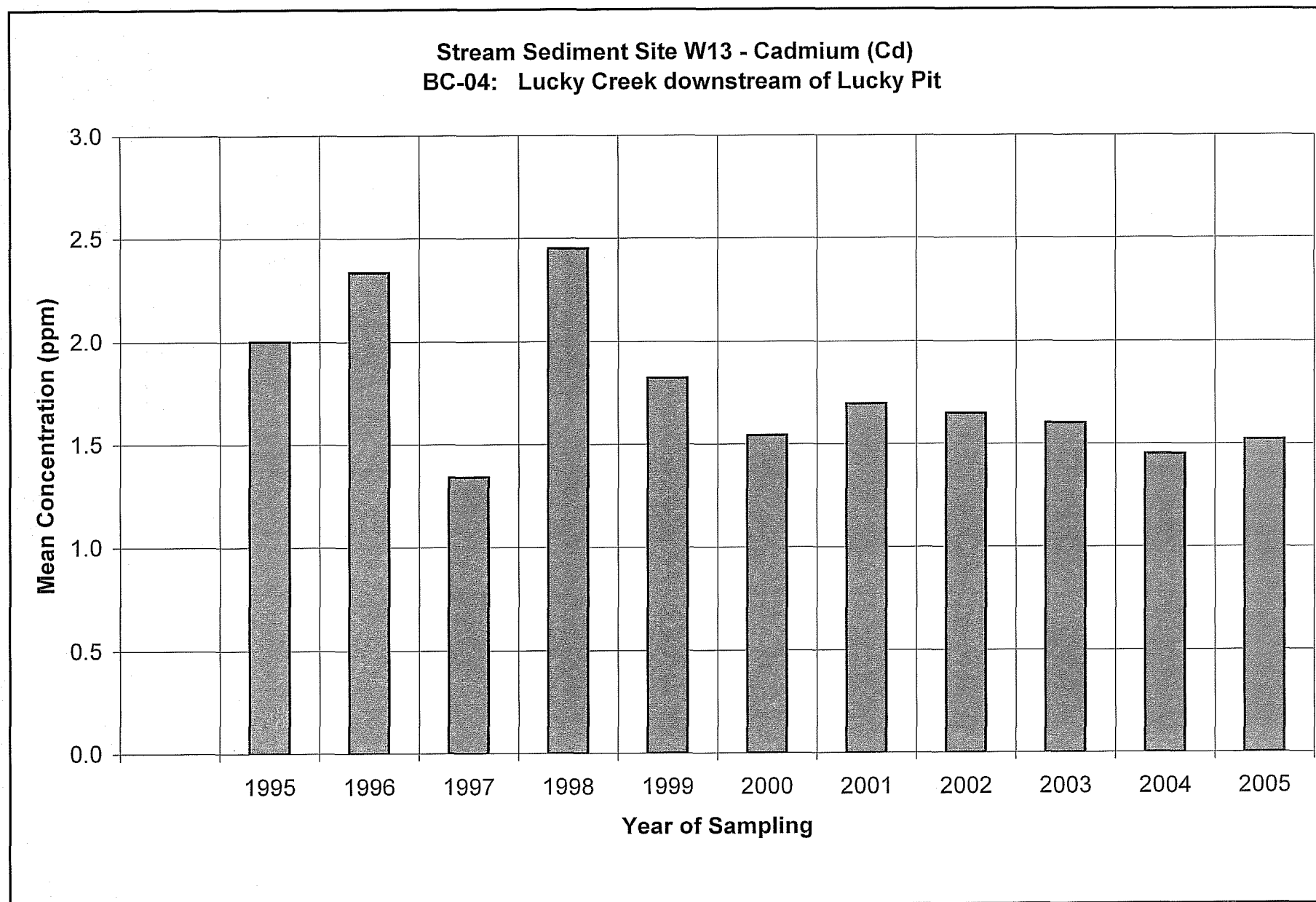
Golden Creek Monitoring Stations														
W02														
BC-31														
		1991	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
As	ppm	85.0	52.3	35.2	41.7	37.8	39.0	50.5	35.4	35.0	21.7	48.9	23.0	36.3
Sb	ppm	29.0	13.3	12.2	12.3	12.6	11.8	29.6	9.8	7.7	5.9	6.3	2.1	6.6
Cd	ppm	4.2	1.7	2.0	1.9	1.8	2.5	1.9	1.5	1.4	1.1	2.3	1.5	2.3
Cu	ppm	59.0	37.9	61.7	42.0	54.8	56.6	95.9	34.2	43.9	32.7	48.1	30.8	39.7
Hg	ppm	0.5	0.0	0.3	1.0	0.3	0.4	0.4	0.3	0.5	0.4	0.3	0.3	0.2
Mo	ppm	3.7	7.3	4.0	3.0	5.6	4.6	3.9	3.0	4.1	2.5	3.1	1.8	3.0
Pb	ppm	33.0	15.7	19.3	19.0	22.7	17.5	25.0	14.8	15.2	12.1	19.6	12.0	17.7
Ni	ppm	69.0	44.7	49.9	55.0	57.0	60.0	52.0	43.6	50.1	39.7	59.2	53.7	56.8
Zn	ppm	328.0	232.7	287.7	309.7	305.9	295.6	289.0	215.5	296.7	211.7	309.8	233.6	297.0

* all values represent mean of replicate samples

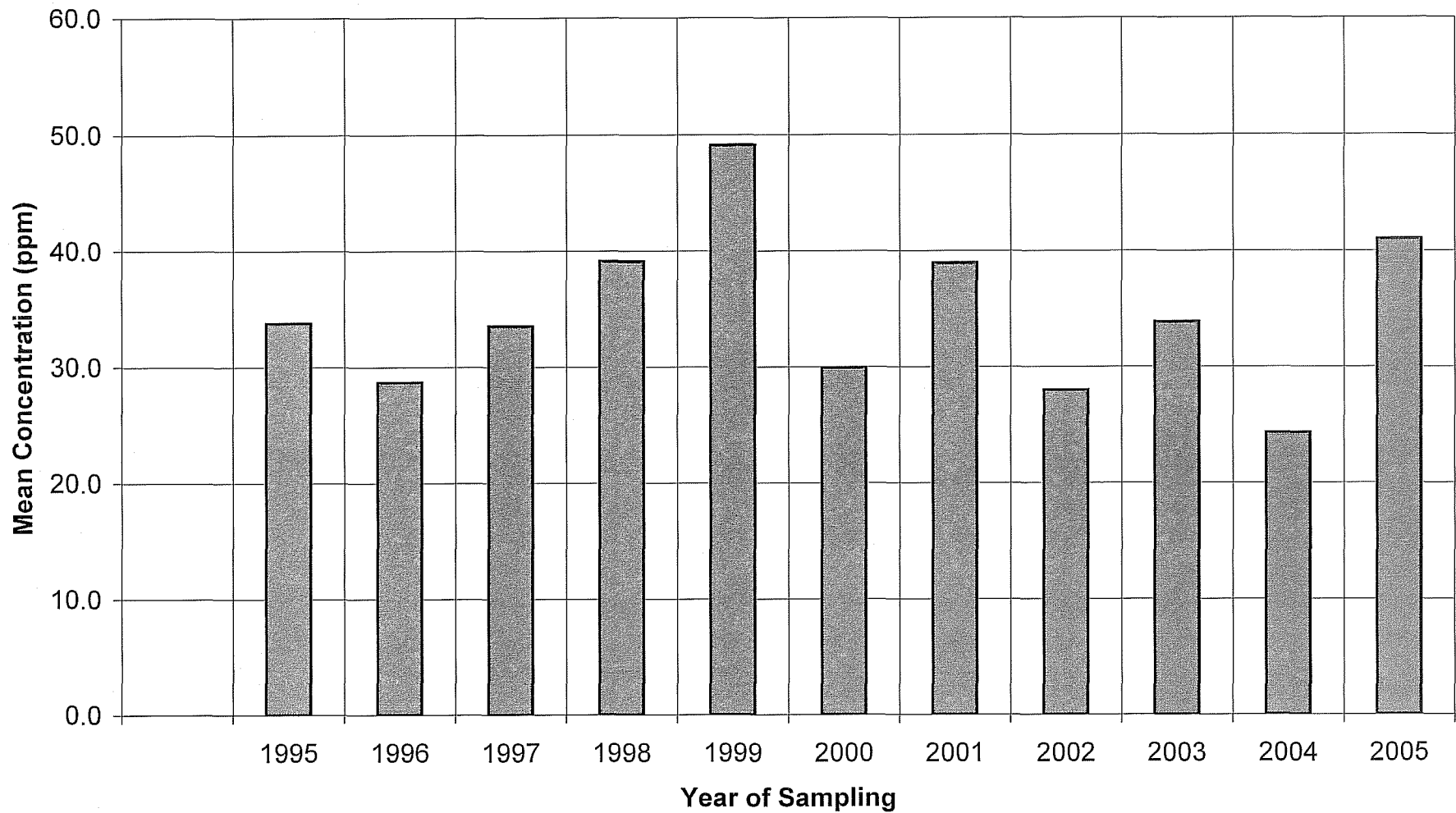


Stream Sediment Site W13 - Antimony (Sb)
BC-04: Lucky Creek downstream of Lucky Pit

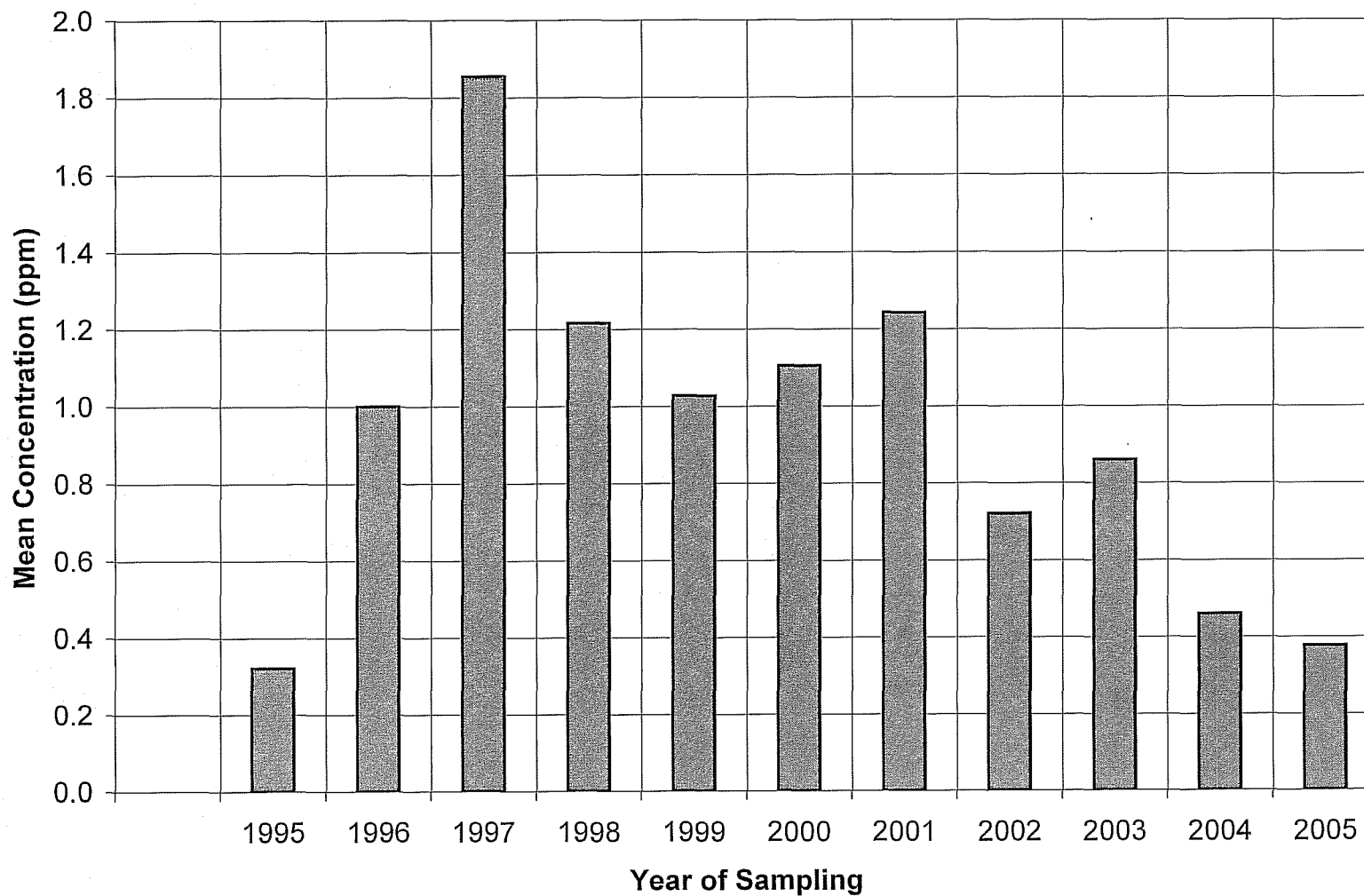




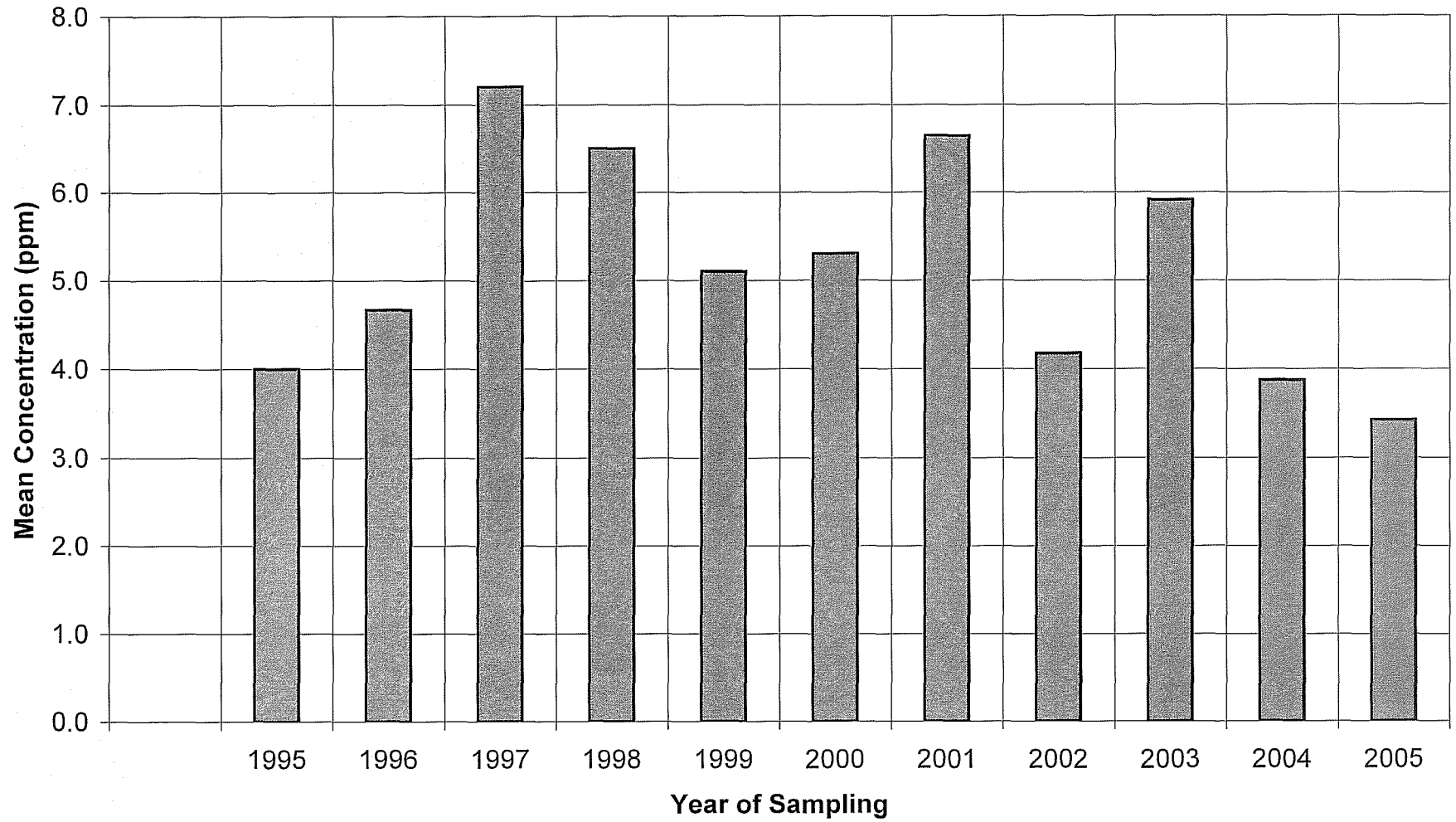
Stream Sediment Site W13 - Copper (Cu)
BC-04: Lucky Creek downstream of Lucky Pit

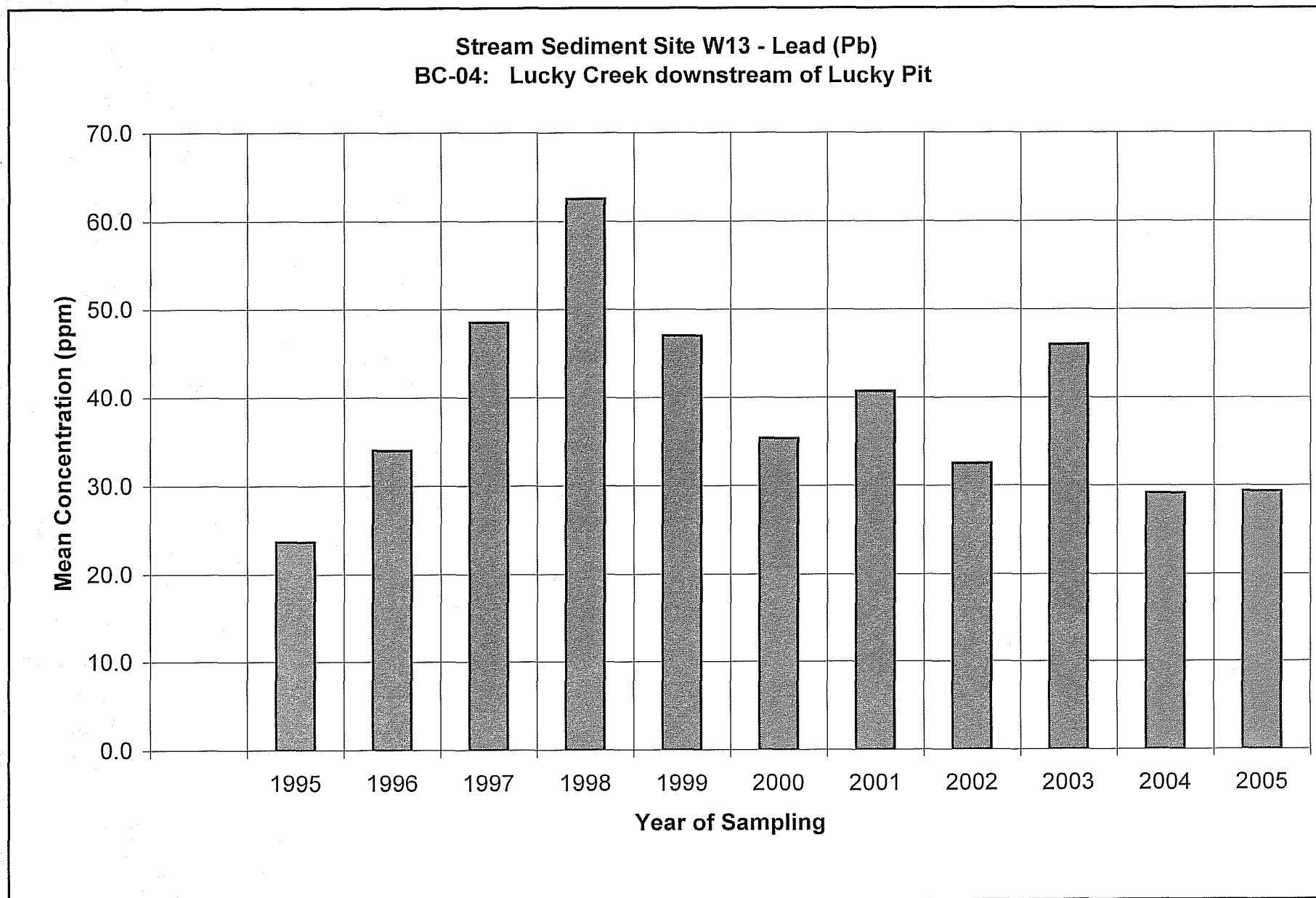


**Stream Sediment Site W13 - Mercury (Hg)
BC-04: Lucky Creek downstream of Lucky Pit**

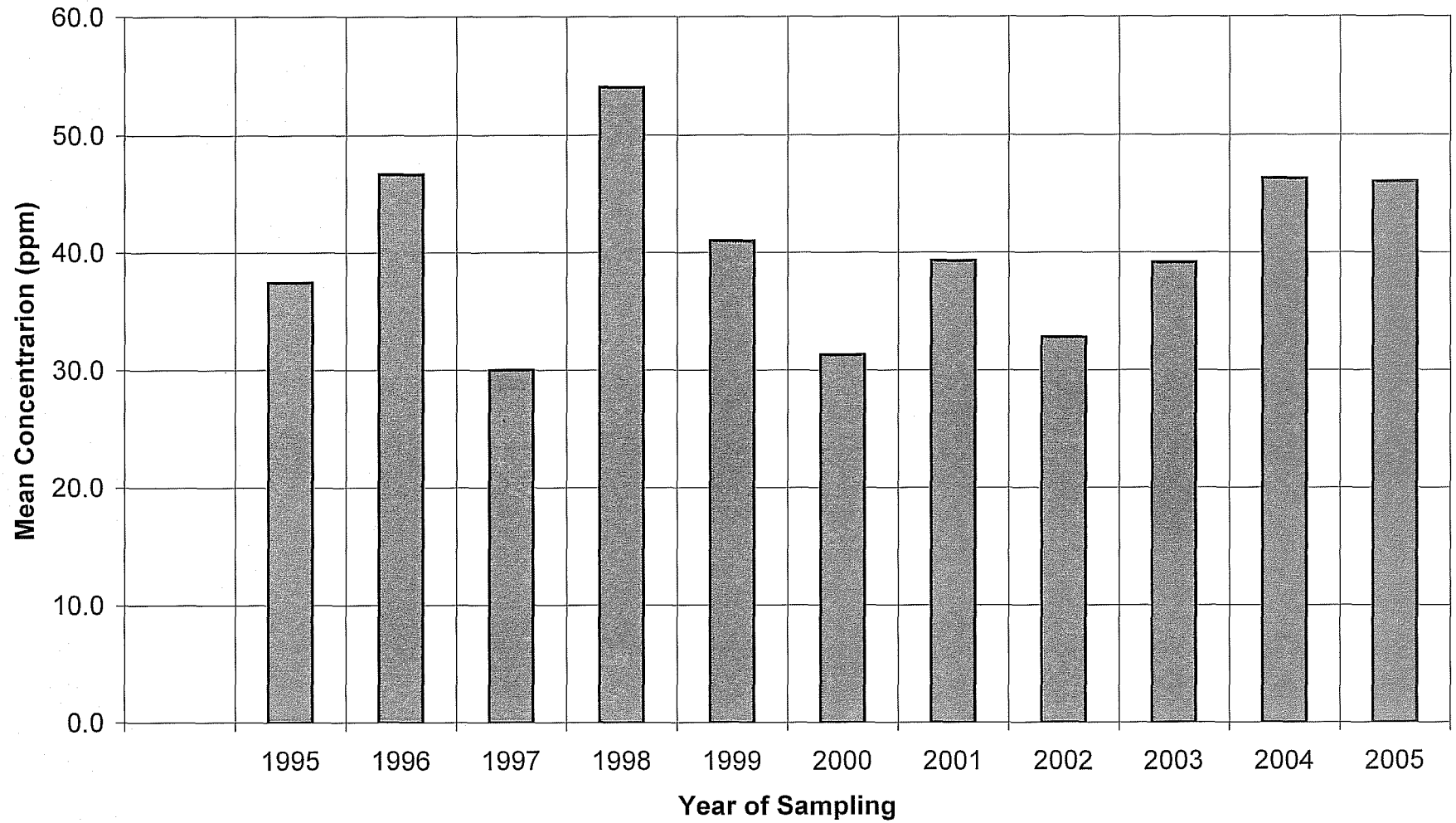


Stream Sediment Site W13 - Molybdenum (Mo)
BC-04: Lucky Creek downstream of Lucky Pit

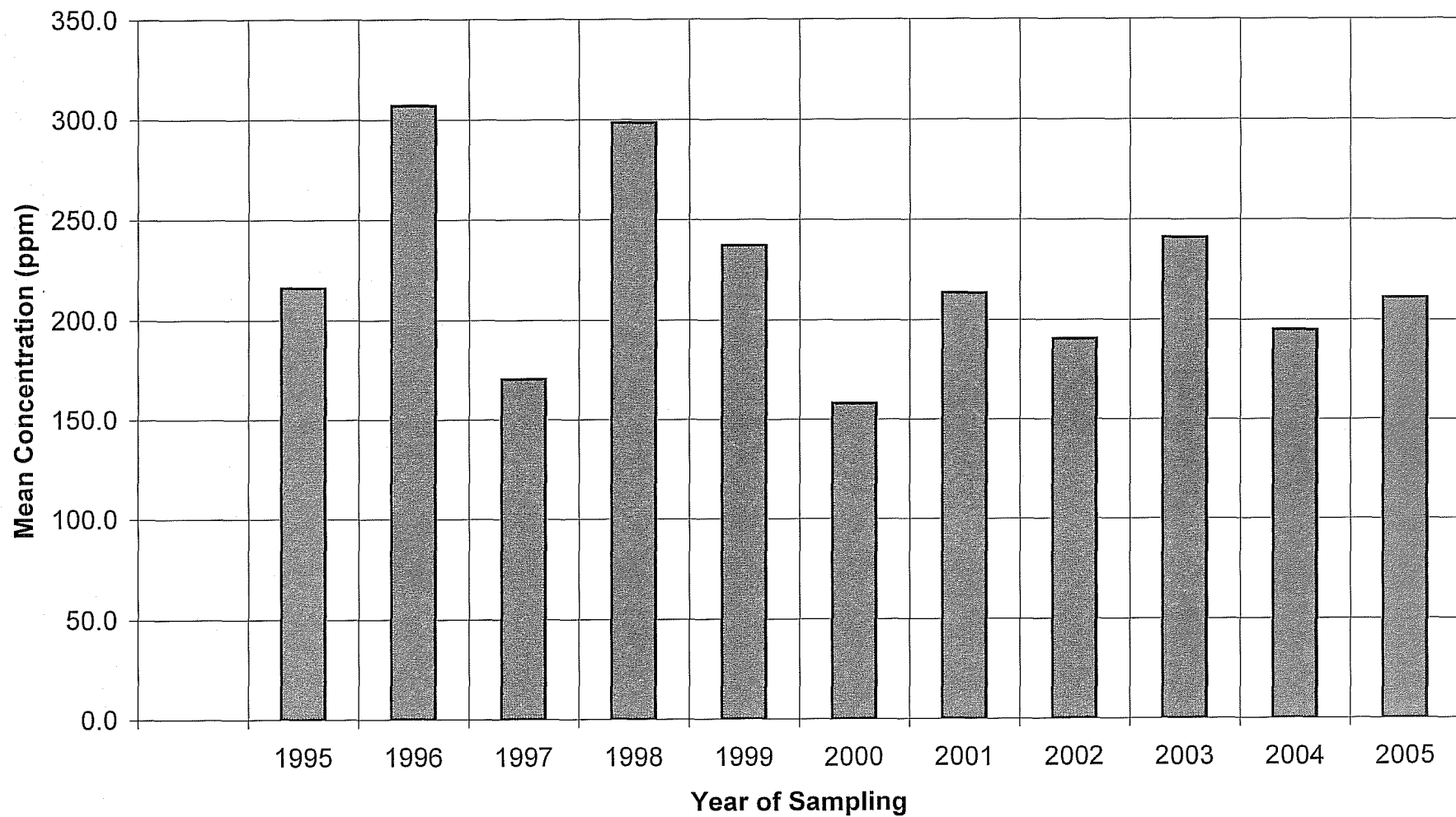




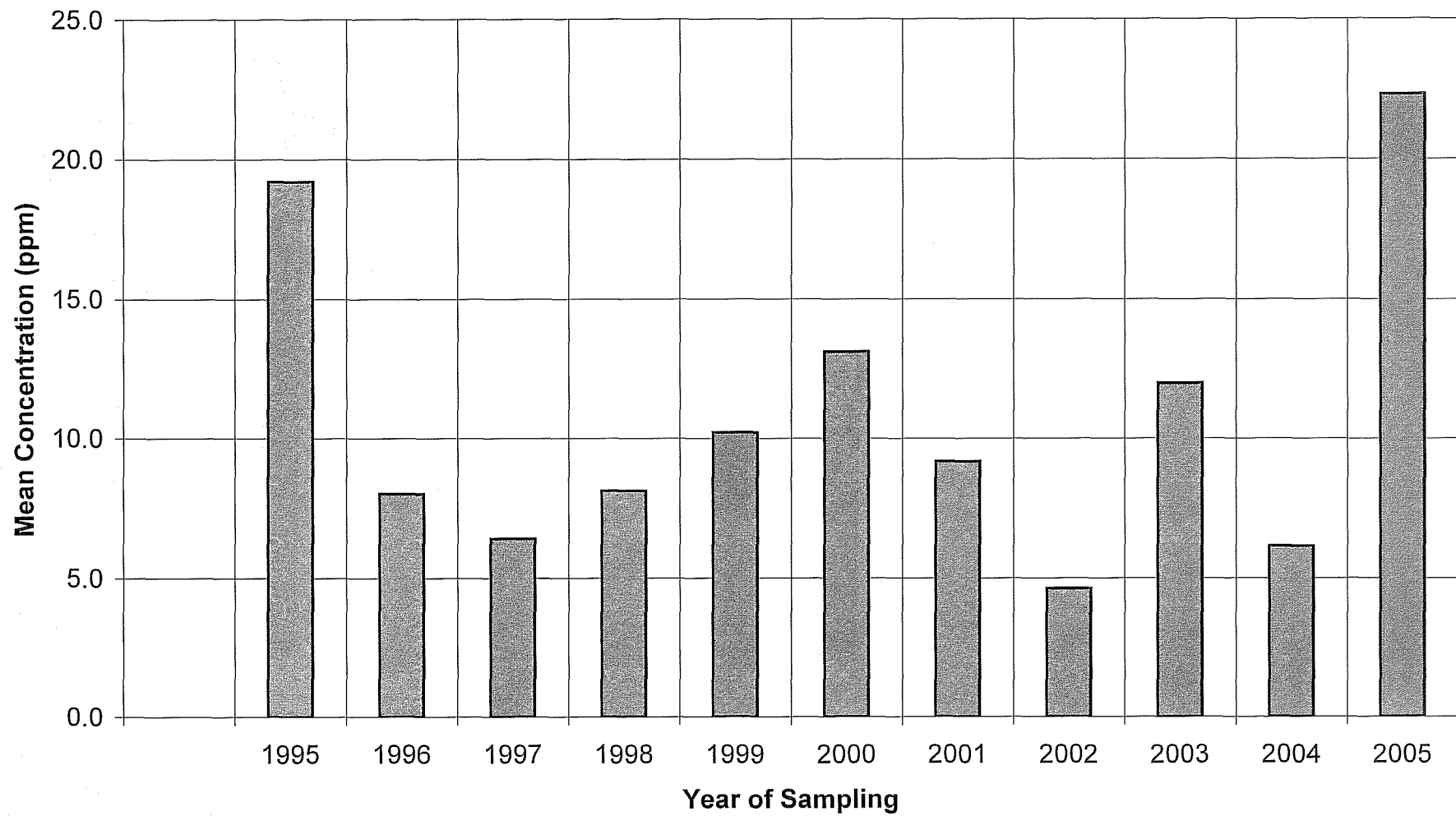
Stream Sediment Site W13 - Nickel (Ni)
BC-04: Lucky Creek downstream of Lucky Pit



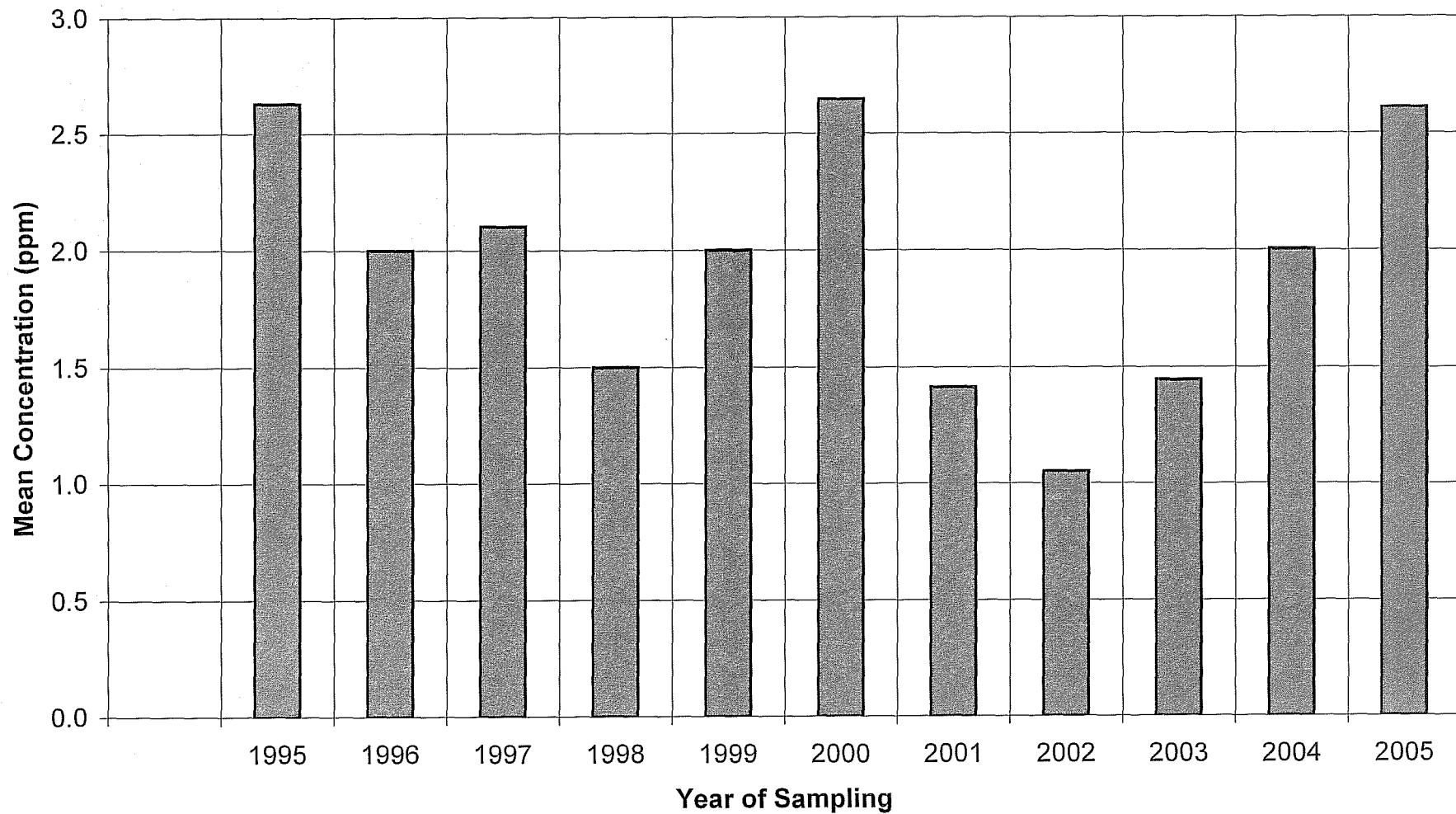
Stream Sediment Site W13 - Zinc (Zn)
BC-04: Lucky Creek downstream of Lucky Pit



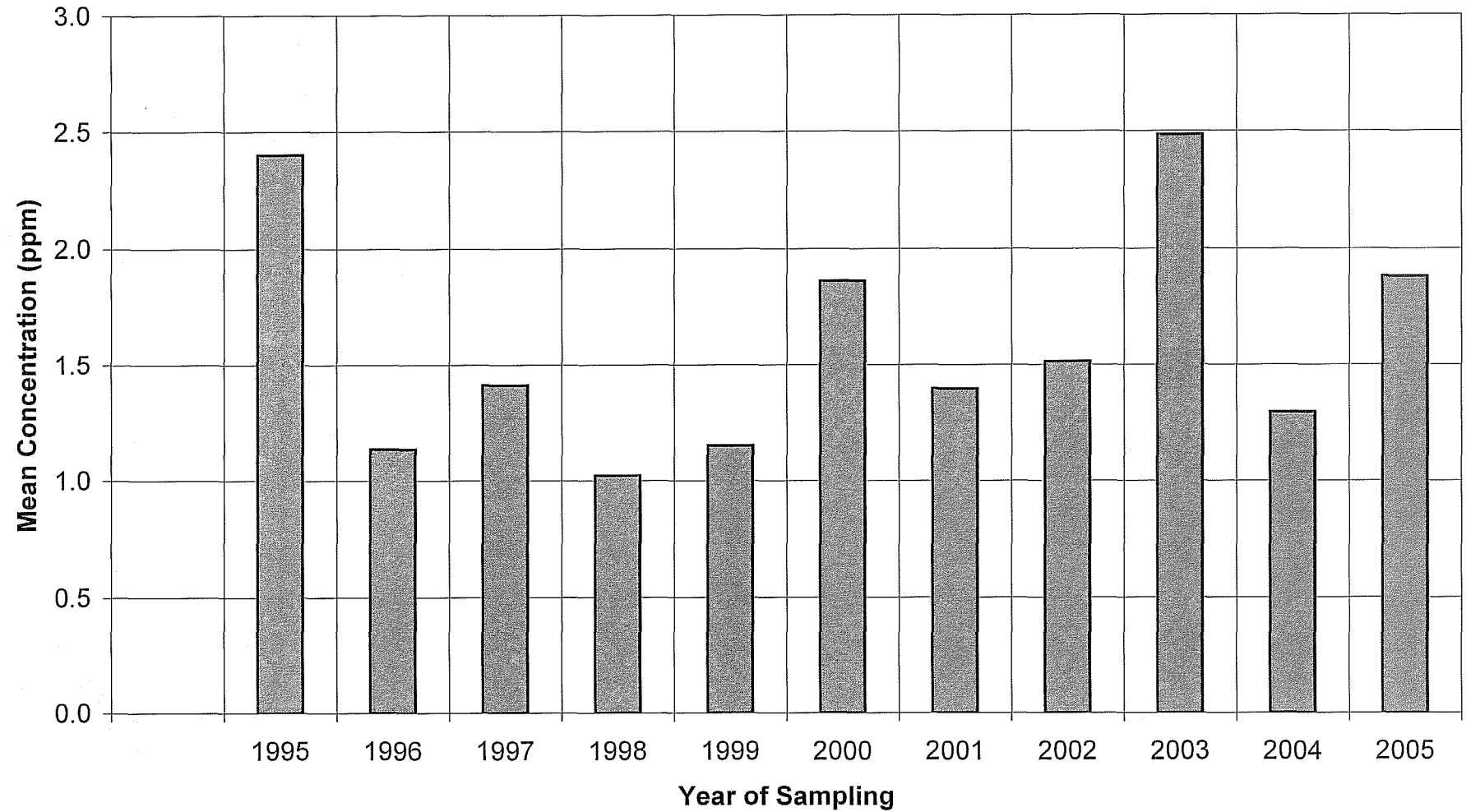
Stream Sediment Site W16 - Arsenic (As)
BC-36: Golden Creek Above Confluence with Lucky Creek



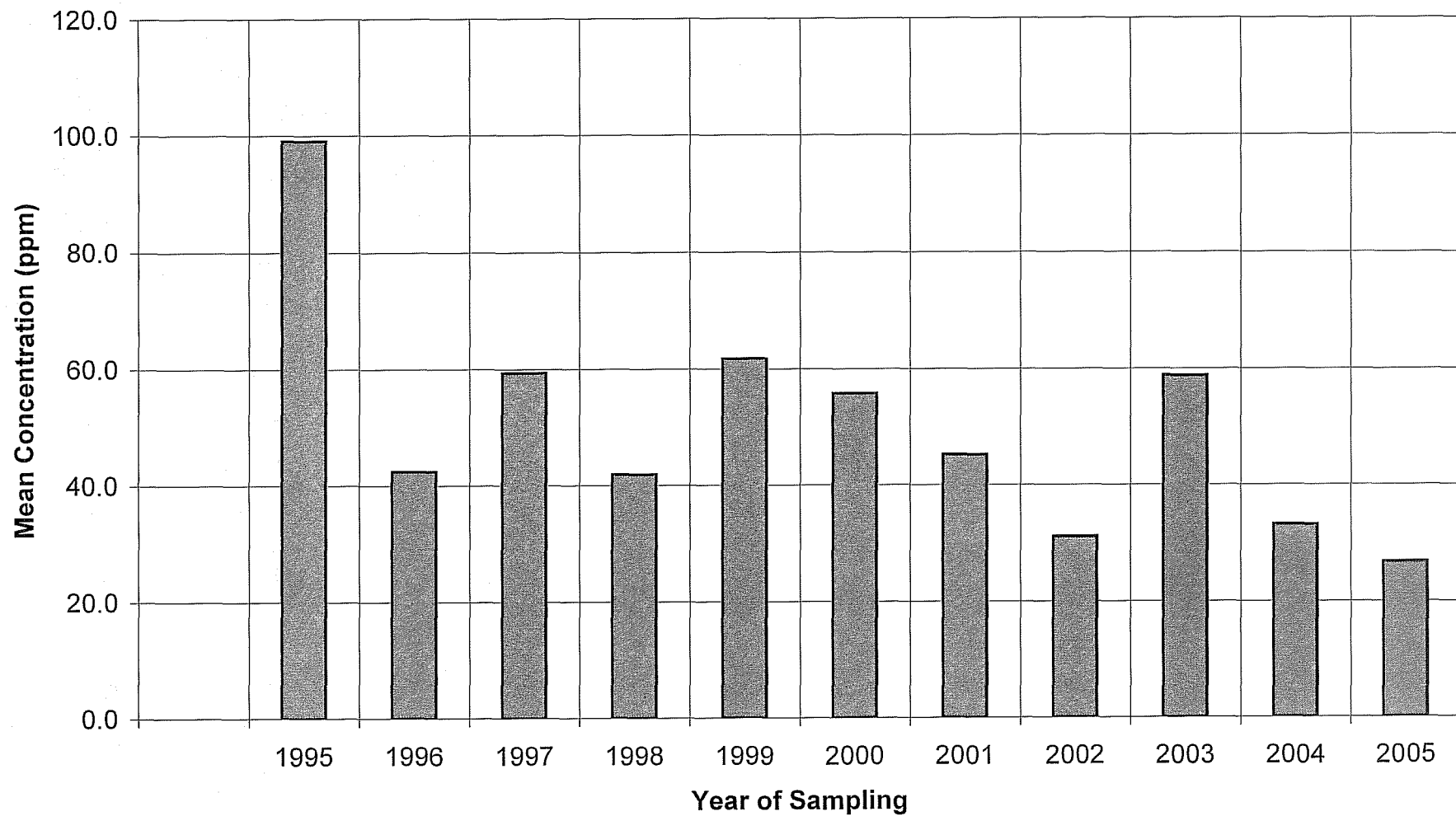
Stream Sediment Site W16 - Antimony (Sb)
BC-36: Golden Creek Above Confluence with Lucky Creek



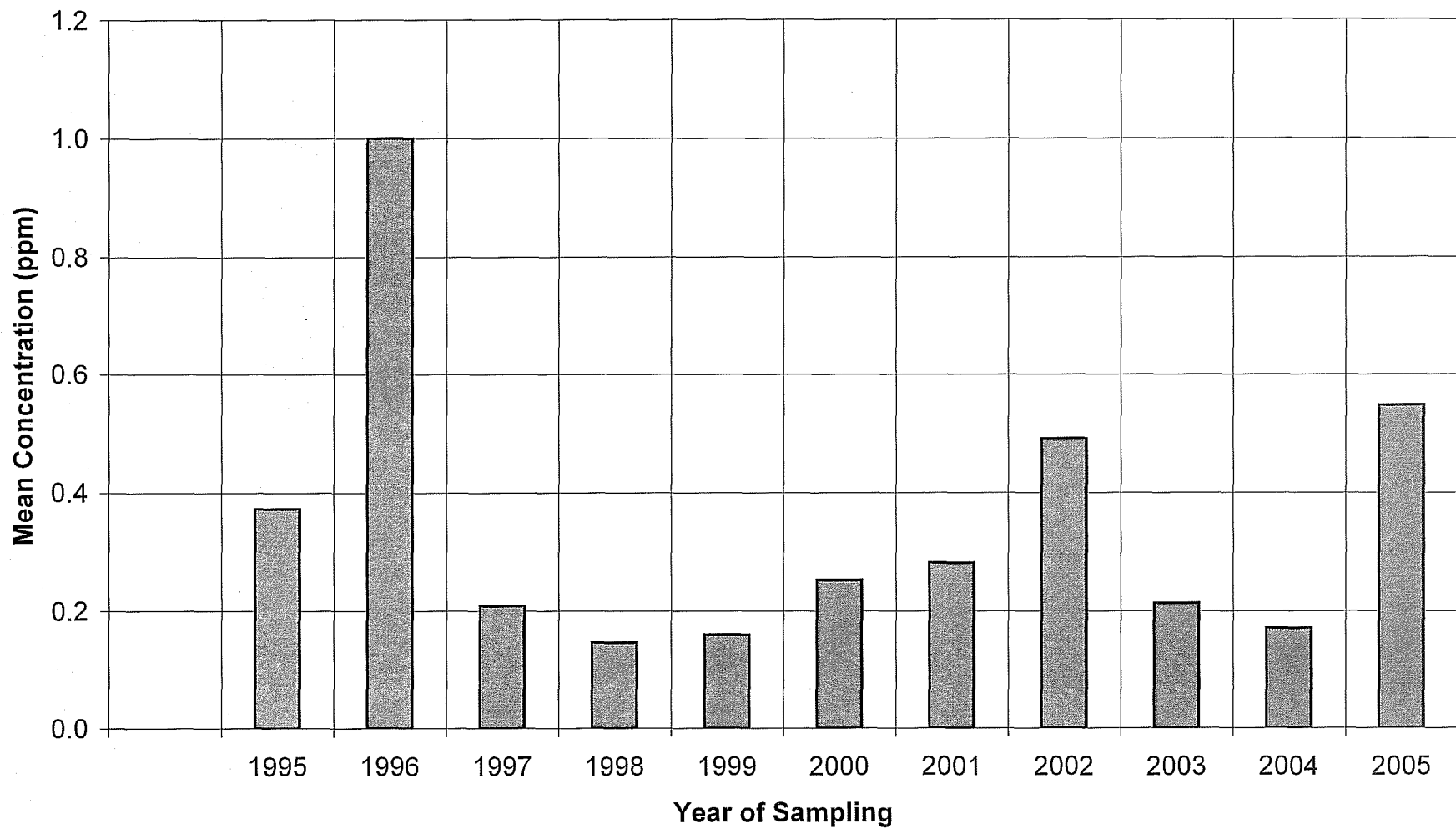
Stream Sediment Site W16 - Cadmium (Cd)
BC-36: Golden Creek Above Confluence with Lucky Creek



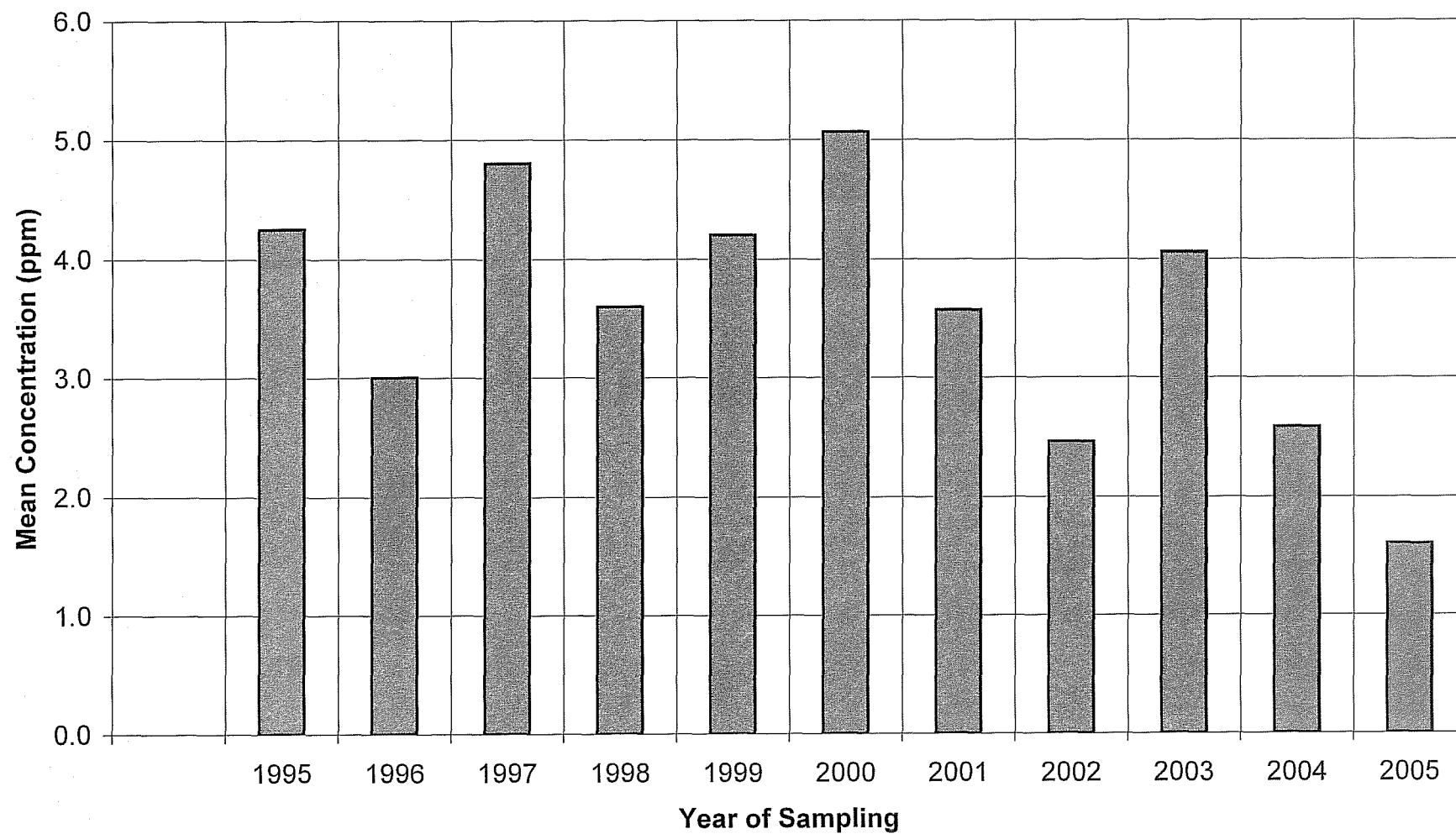
Stream Sediment Site W16 - Copper (Cu)
BC-36: Golden Creek Above Confluence with Lucky Creek



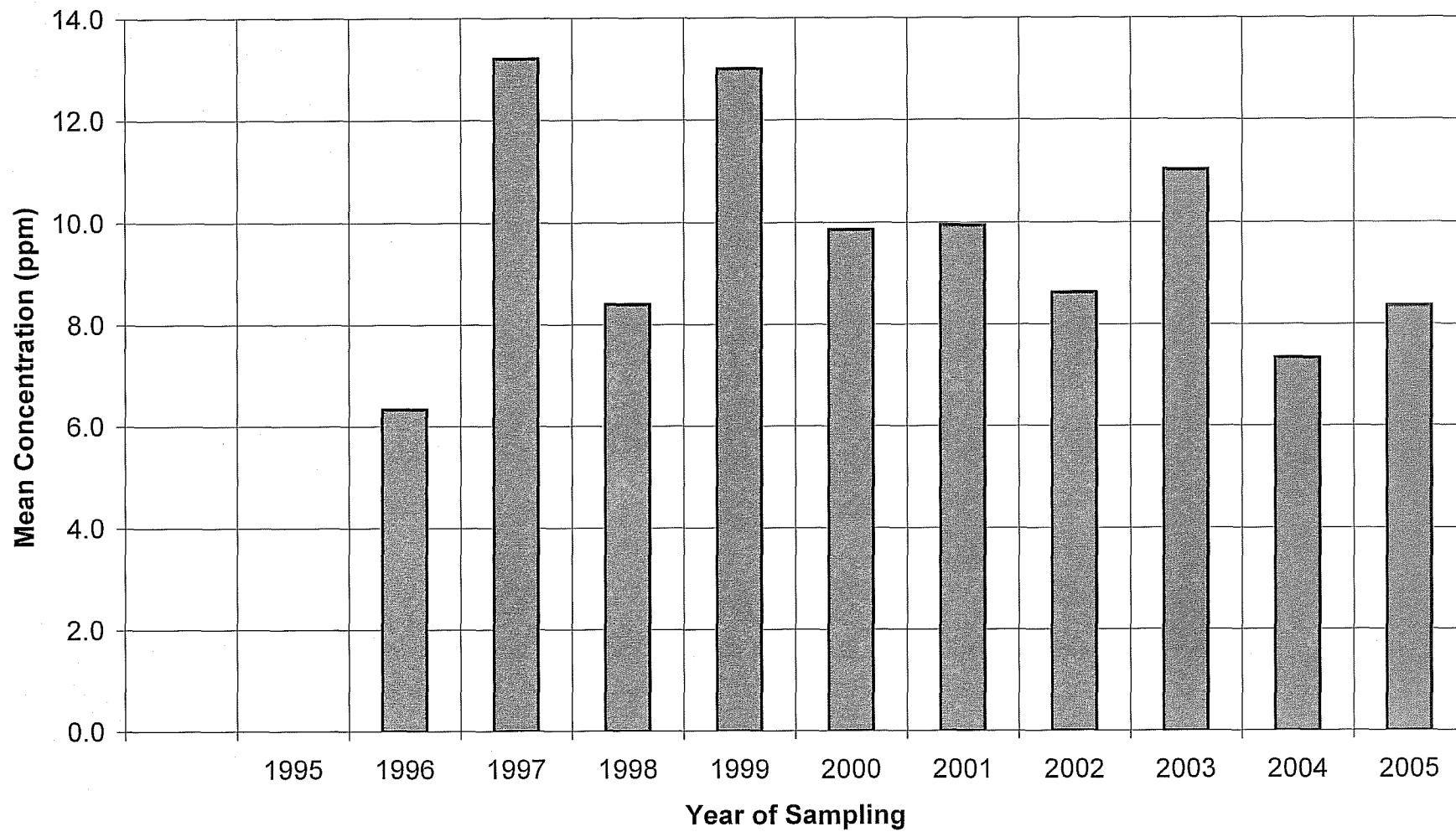
Stream Sediment Site W16 - Mercury (Hg)
BC-36: Golden Creek Above Confluence with Lucky Creek



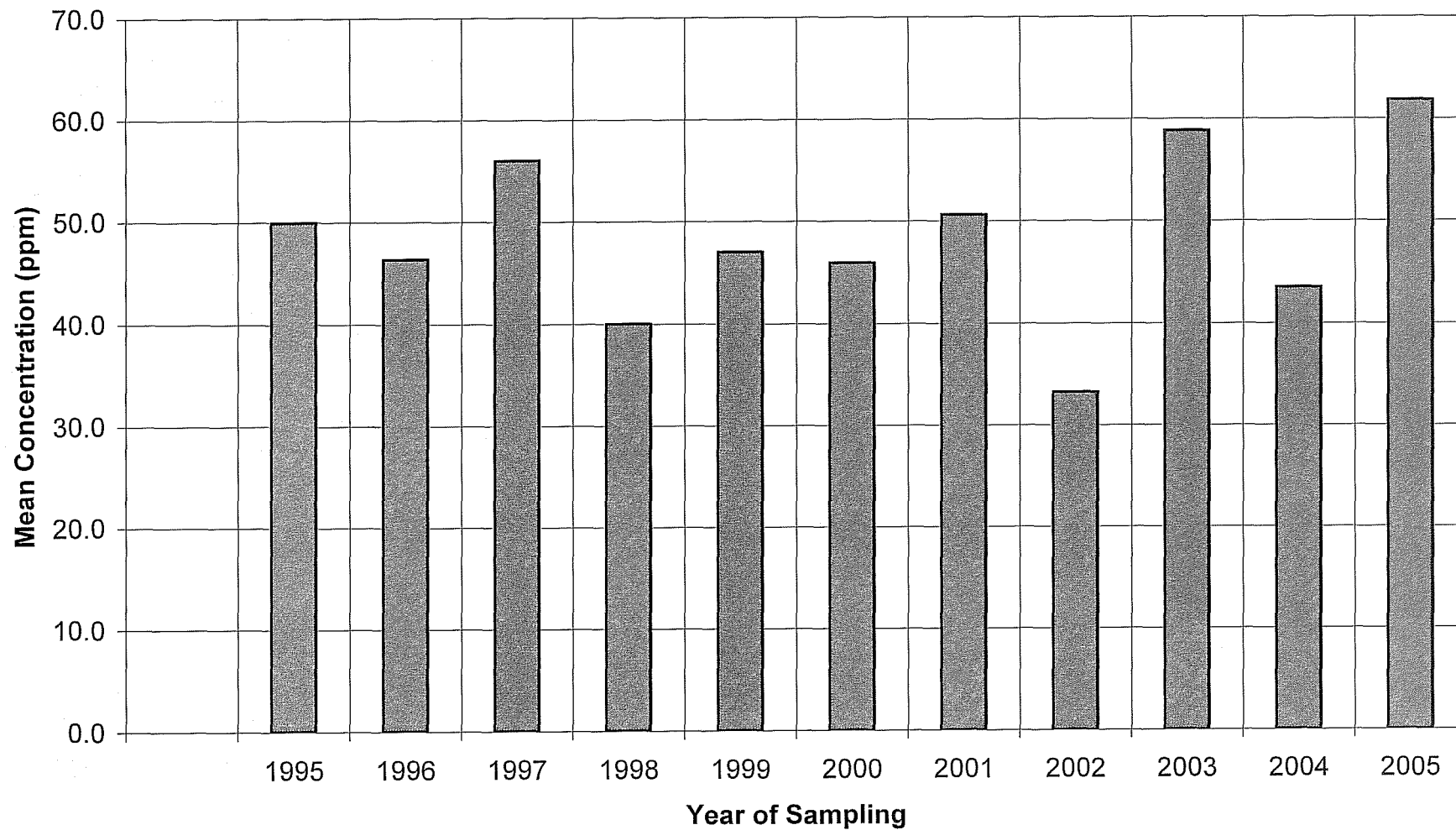
Stream Sediment Site W16 - Molybdenum (Mo)
BC-36: Golden Creek Above Confluence with Lucky Creek



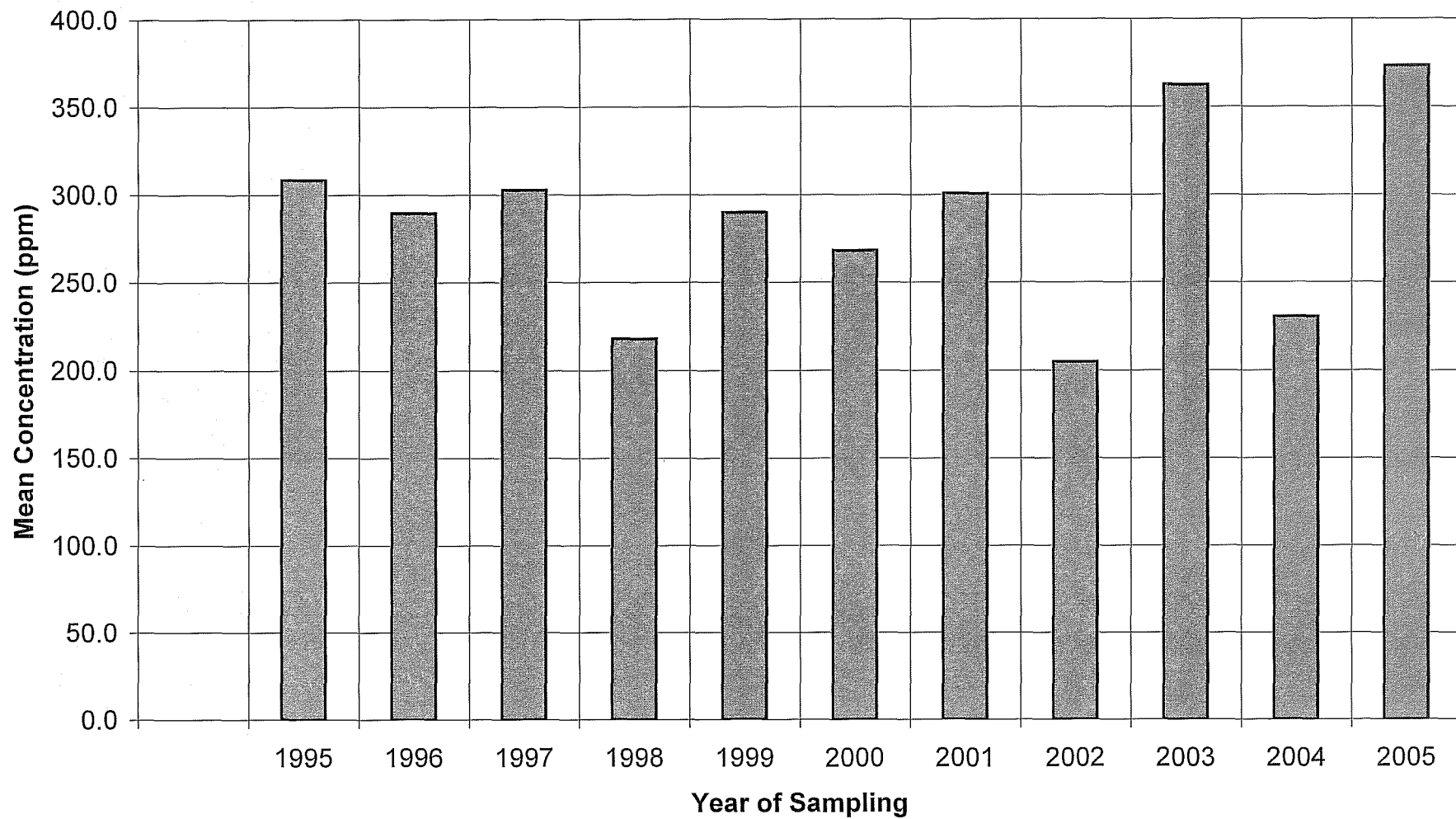
Stream Sediment Site W16 - Lead (Pb)
BC-36: Golden Creek Above Confluence with Lucky Creek



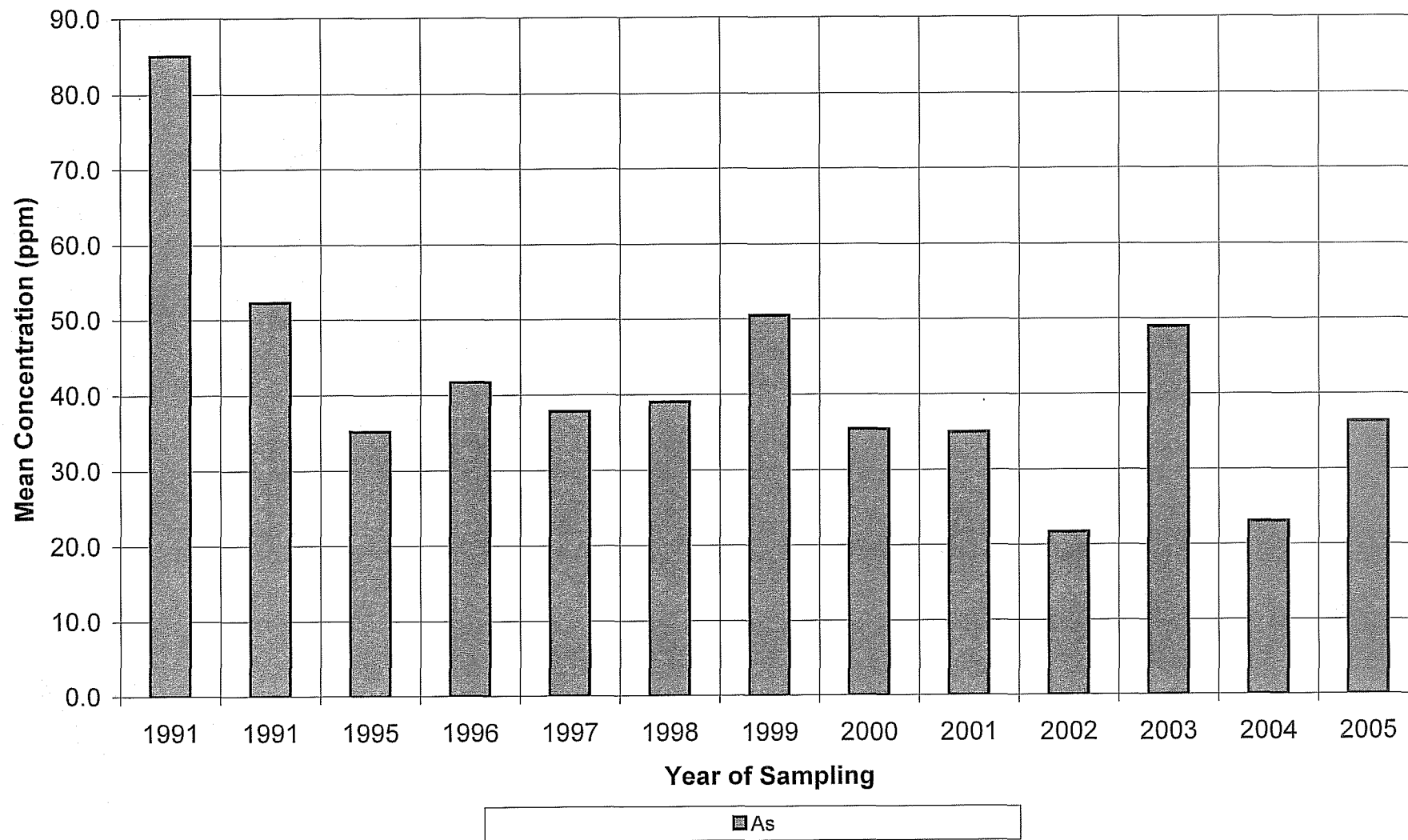
Stream Sediment Site W16 - Nickel (Ni)
BC-36: Golden Creek Above Confluence with Lucky Creek



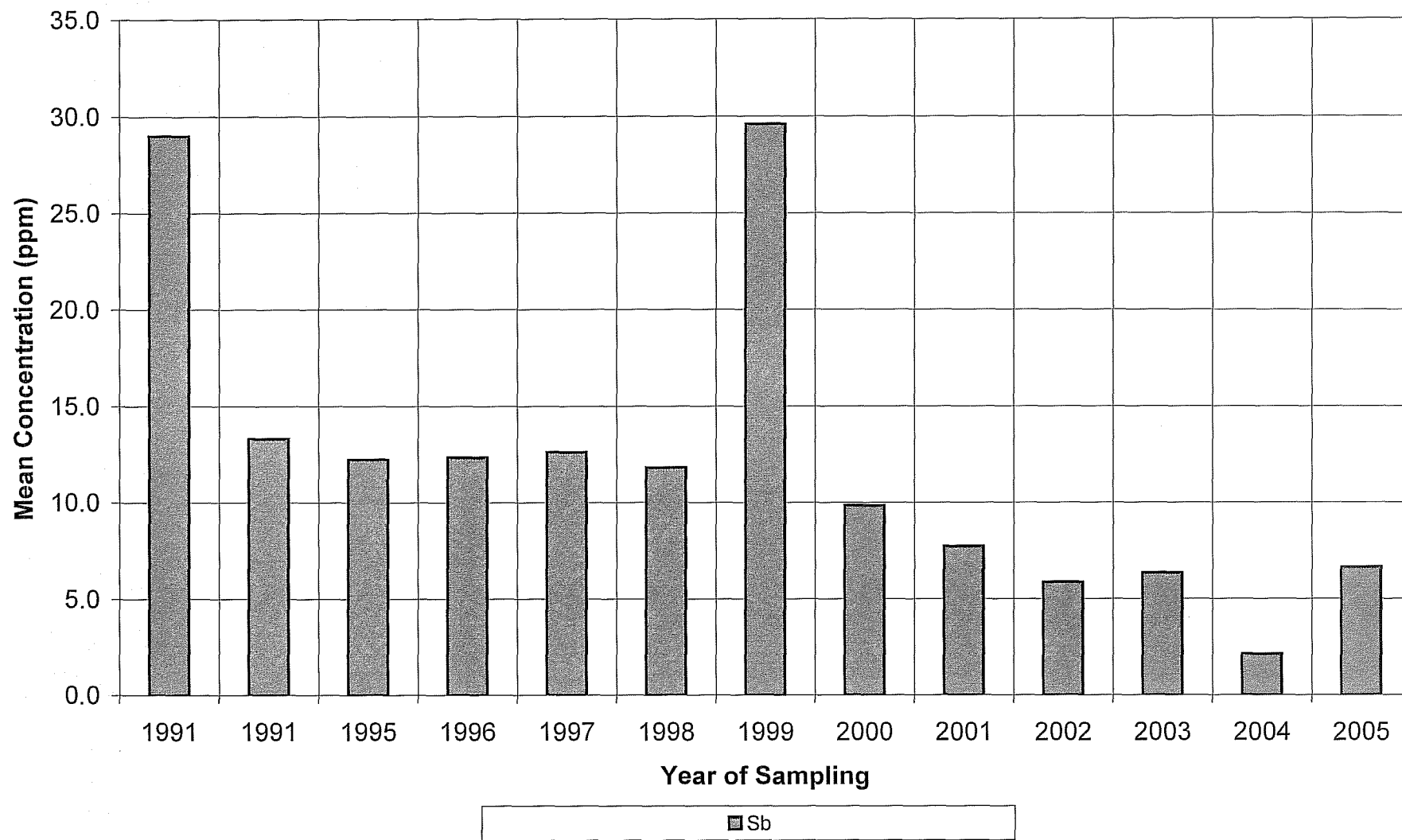
Stream Sediment Site W16 - Zinc (Zn)
BC-36: Golden Creek Above Confluence with Lucky Creek



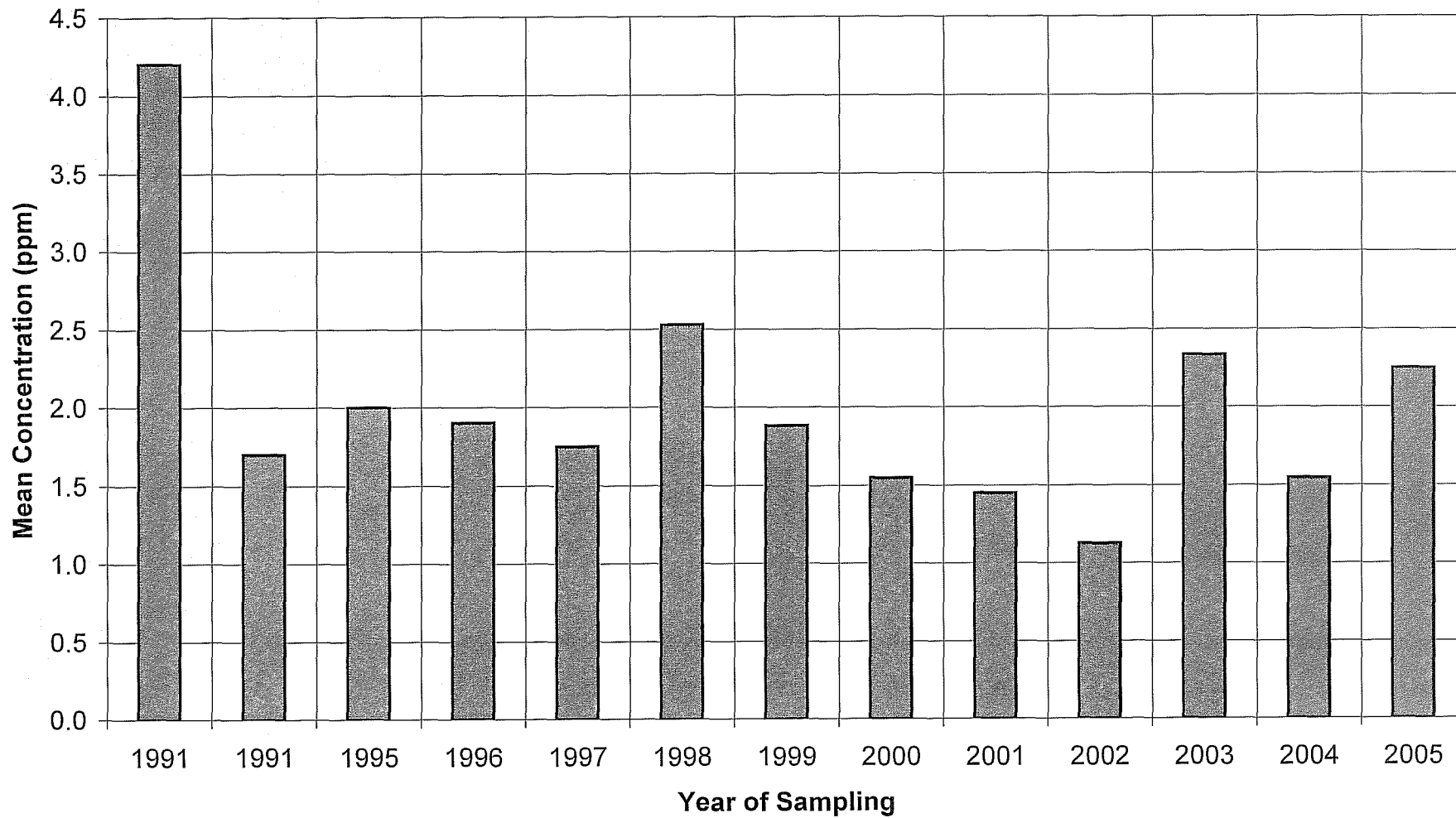
Stream Sediment Site W02
BC-31: Golden Creek Above Confluence with Klondike River



Stream Sediment Site W02
BC-31: Golden Creek Above Confluence with Klondike River

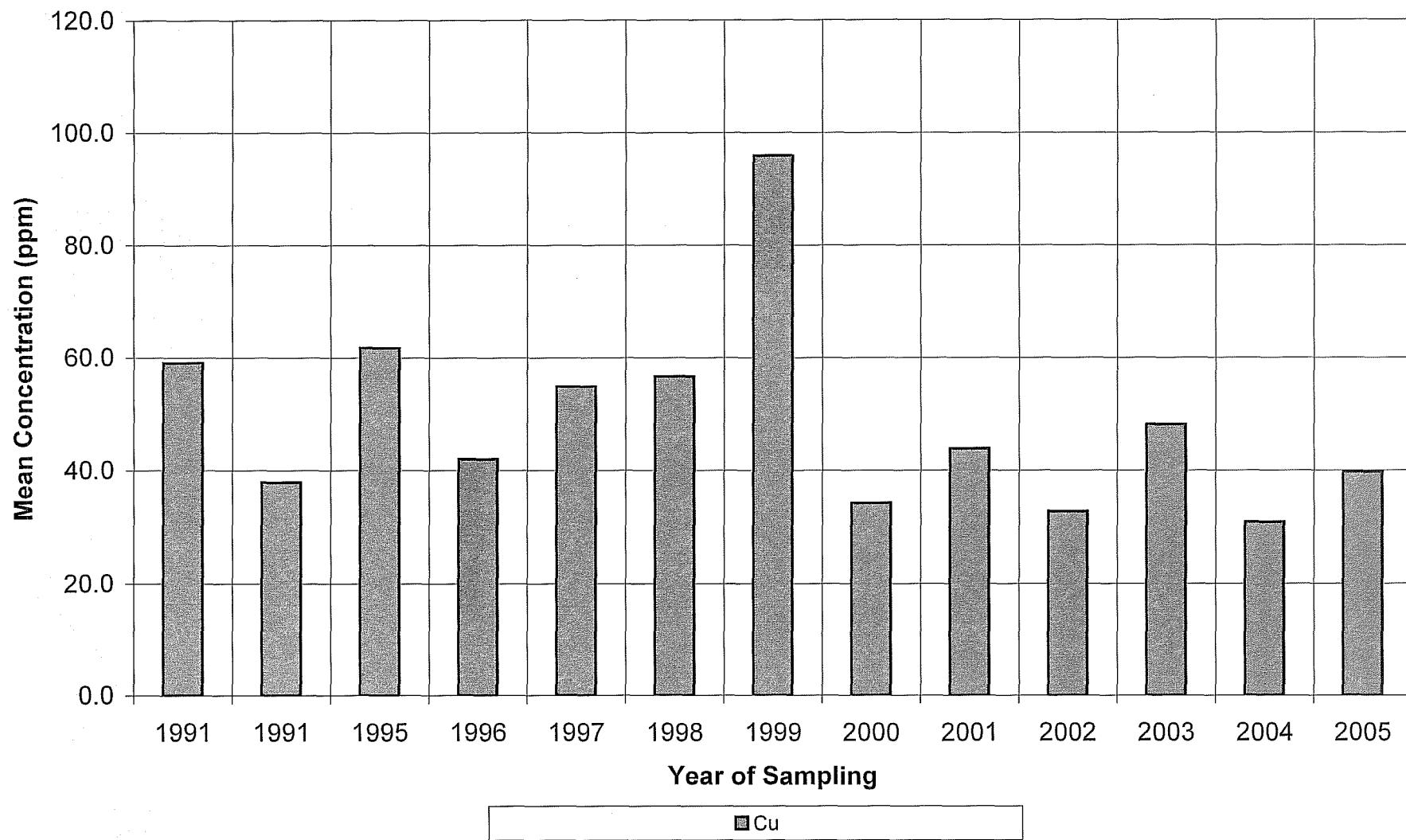


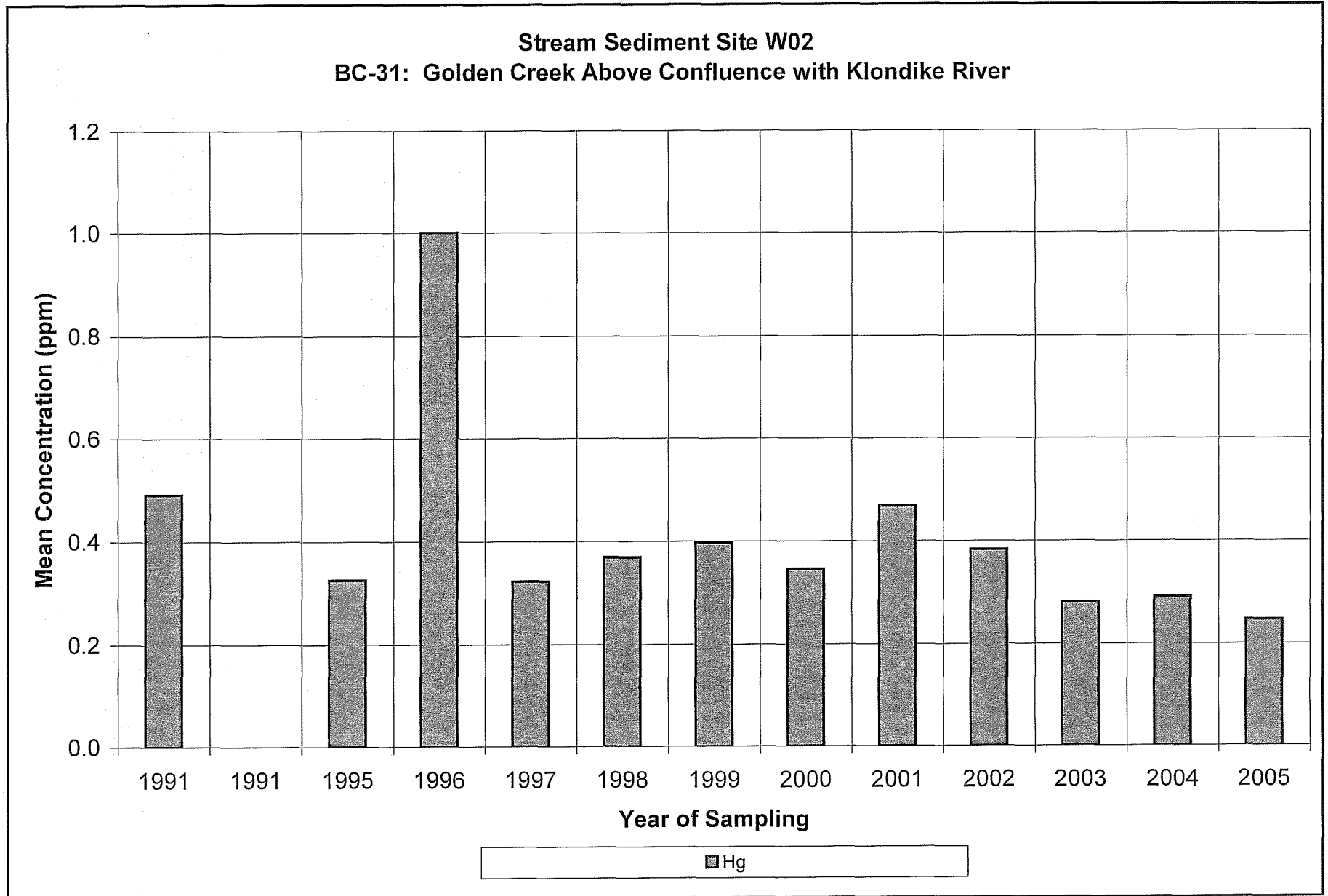
Stream Sediment Site W02
BC-31: Golden Creek Above Confluence with Klondike River



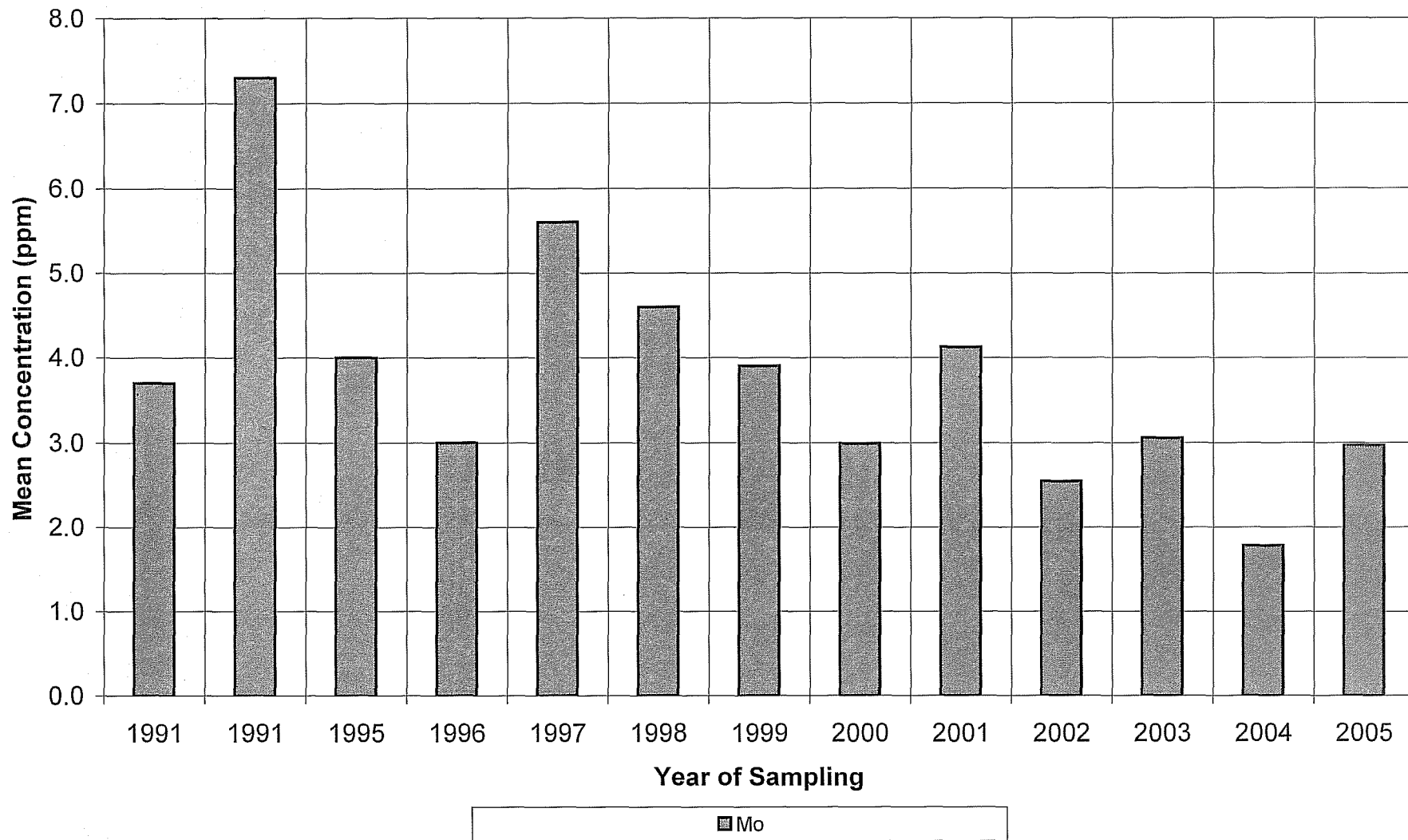
■ Cd

Stream Sediment Site W02
BC-31: Golden Creek Above Confluence with Klondike River

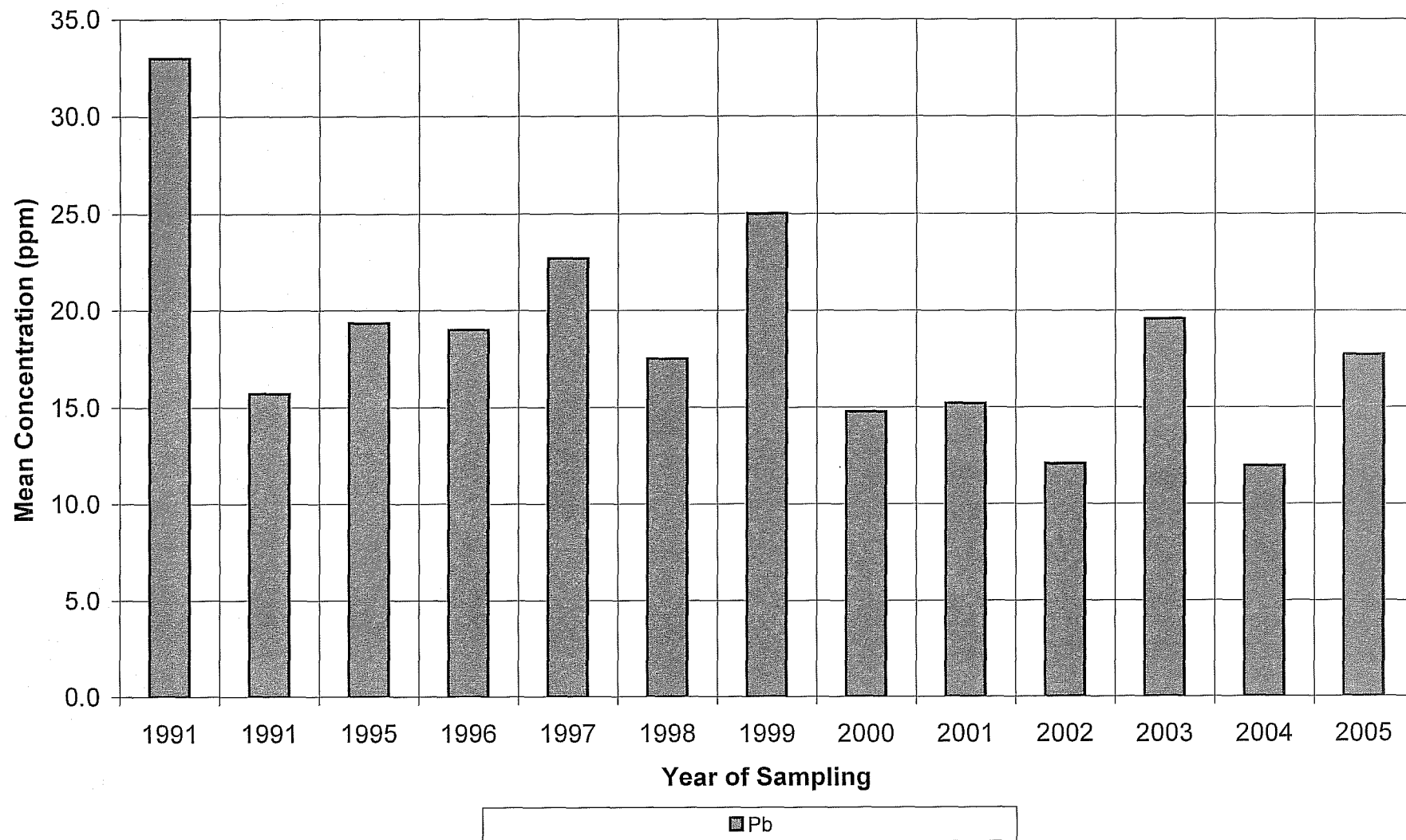




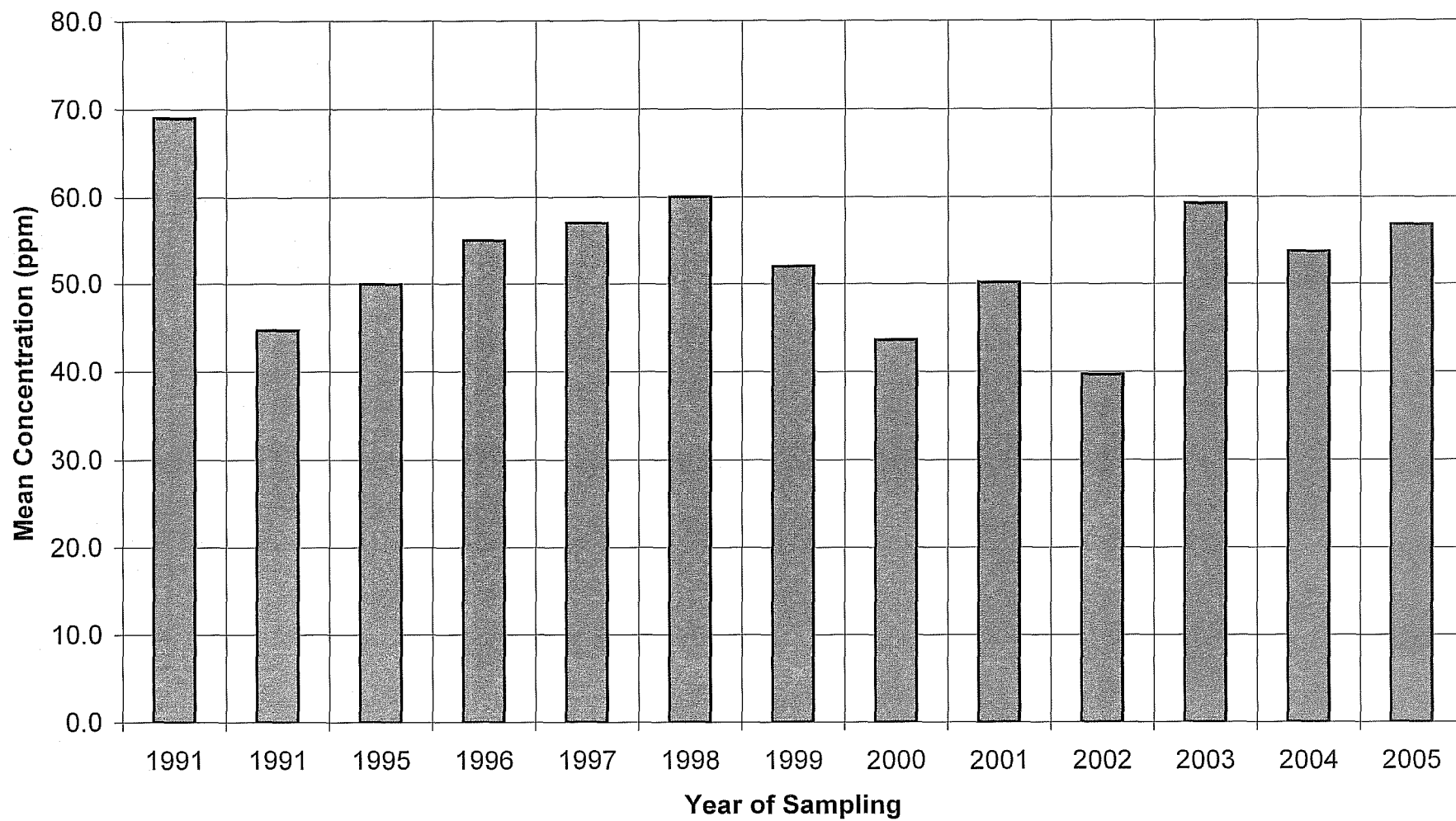
Stream Sediment Site W02
BC-31: Golden Creek Above Confluence with Klondike River



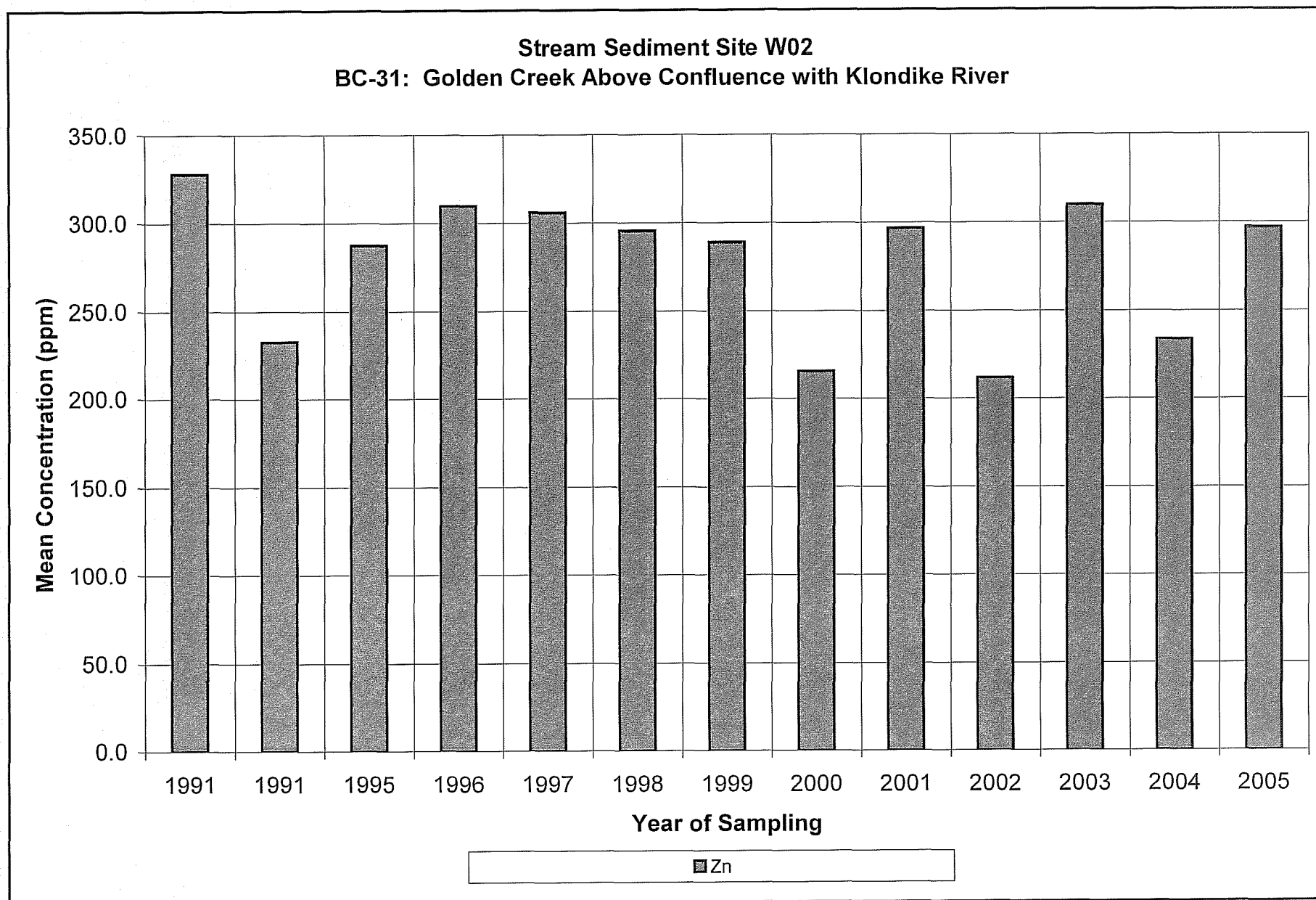
Stream Sediment Site W02
BC-31: Golden Creek Above Confluence with Klondike River



Stream Sediment Site W02
BC-31: Golden Creek Above Confluence with Klondike River



■ Ni



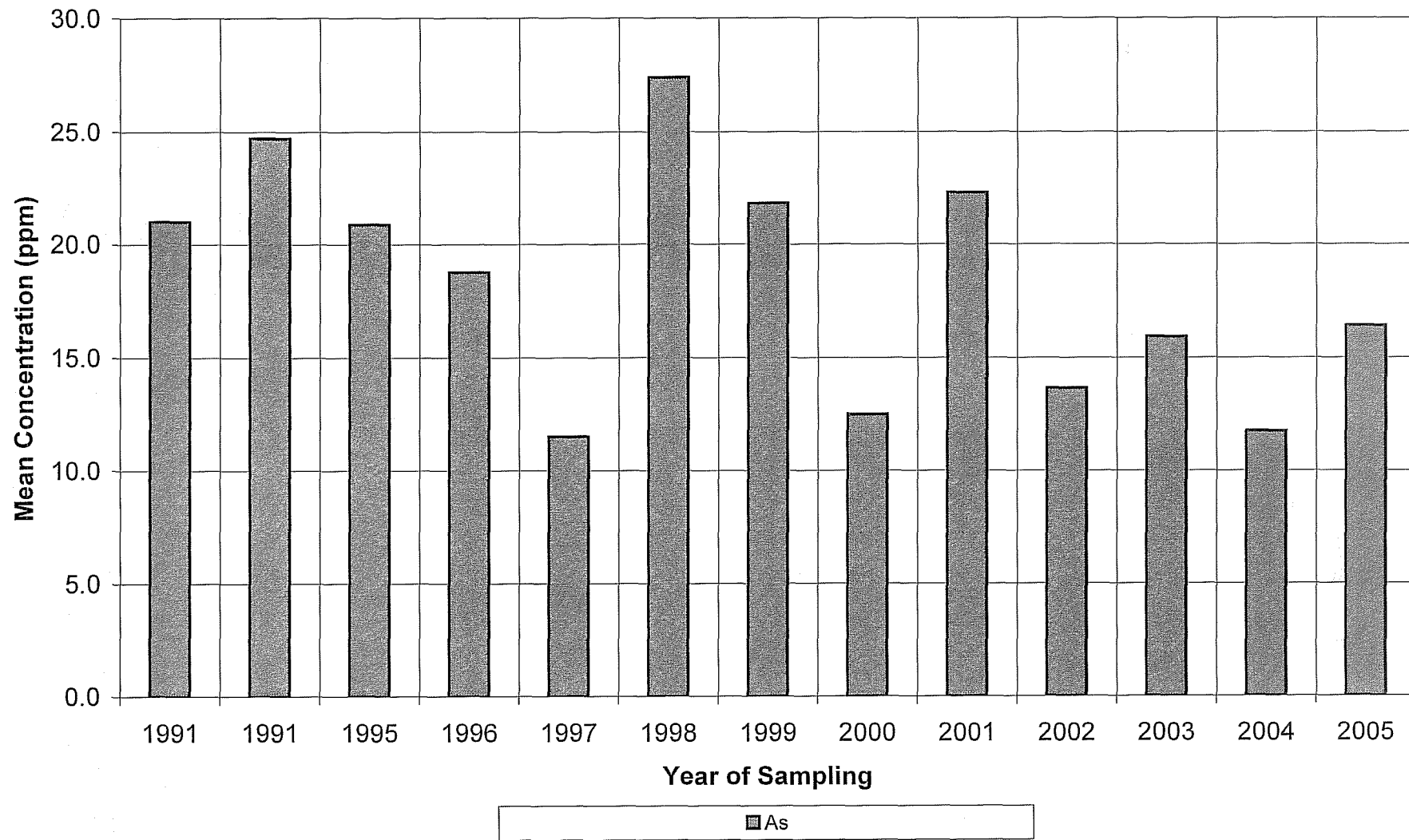
Stream Sediment Analysis: HISTORICAL COMPARISON

		Klondike River Monitoring Stations												
		W8 BC-38												
		1991	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
As	ppm	21.0	24.7	20.9	18.8	11.5	27.4	21.8	12.5	22.3	13.6	15.9	11.7	16.4
Sb	ppm	2.0	8.0	1.8	2.0	1.9	2.1	2.0	1.0	1.3	1.1	0.8	0.9	0.8
Cd	ppm	13.0	0.9	2.0	0.4	0.4	0.9	0.6	0.6	0.7	0.5	0.5	0.7	1.0
Cu	ppm	31.0	27.0	30.0	24.8	22.8	29.1	115.1	21.3	29.3	19.3	22.4	21.3	25.9
Hg	ppm	0.1	0.0	0.1	1.0	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1
Mo	ppm	2.0	6.0	4.0	1.0	2.2	3.8	2.1	1.4	1.7	1.3	1.5	1.3	1.6
Pb	ppm	12.0	9.0	10.0	10.8	12.6	15.9	13.0	9.1	12.3	10.3	12.9	9.2	12.2
Ni	ppm	39.0	31.0	31.1	33.8	28.0	34.0	33.0	27.1	35.4	24.0	30.1	34.4	34.0
Zn	ppm	184.0	125.3	145.3	171.3	124.1	129.4	163.0	101.5	158.6	113.6	131.5	133.3	168.0

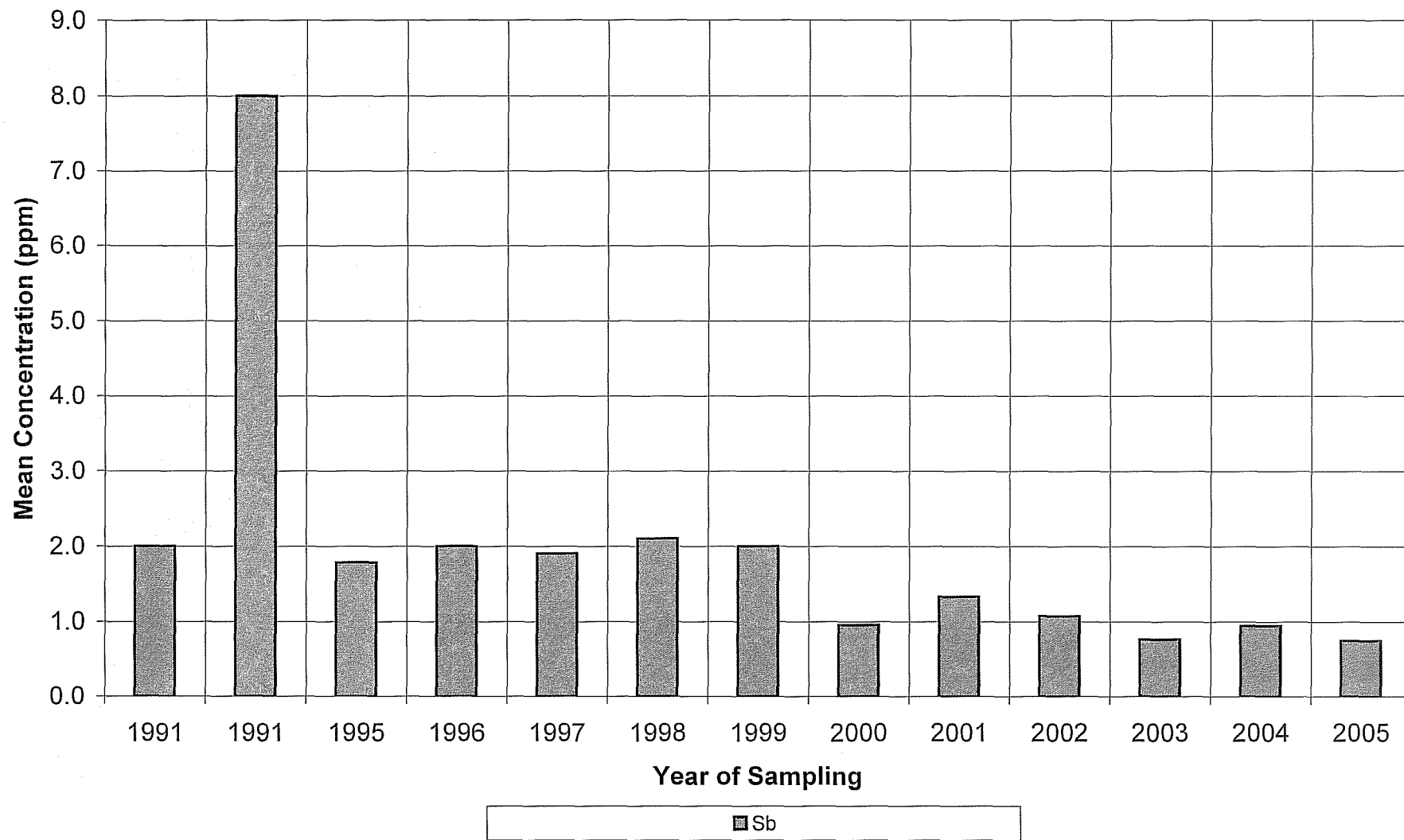
		Klondike River Monitoring Stations												
		W9 BC-6												
		1991	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
As	ppm	21.0	16.0	20.4	18.8	14.3	17.9	20.9	18.0	18.6	16.9	19.5	19.0	13.3
Sb	ppm	2.0	8.0	1.9	2.0	0.9	2.5	2.0	1.9	1.5	1.1	1.2	1.3	1.0
Cd	ppm	1.0	0.8	2.0	1.0	0.9	1.3	0.7	0.6	0.7	0.6	0.7	0.9	1.3
Cu	ppm	33.0	35.2	74.7	30.3	32.1	34.8	52.7	24.1	30.0	23.0	26.3	27.7	38.0
Hg	ppm	0.1	0.0	0.1	1.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Mo	ppm	1.0	6.3	4.0	2.0	2.7	3.0	1.9	1.9	2.3	1.8	1.8	2.2	2.6
Pb	ppm	11.0	10.3	11.7	10.5	13.9	11.9	7.0	10.8	10.8	10.0	10.3	10.2	11.5
Ni	ppm	38.0	43.3	38.4	41.5	34.0	44.0	33.0	29.3	38.5	29.6	34.9	41.1	45.1
Zn	ppm	165.0	202.7	203.0	224.8	162.1	217.3	163.0	120.9	182.6	136.7	168.9	171.5	231.0

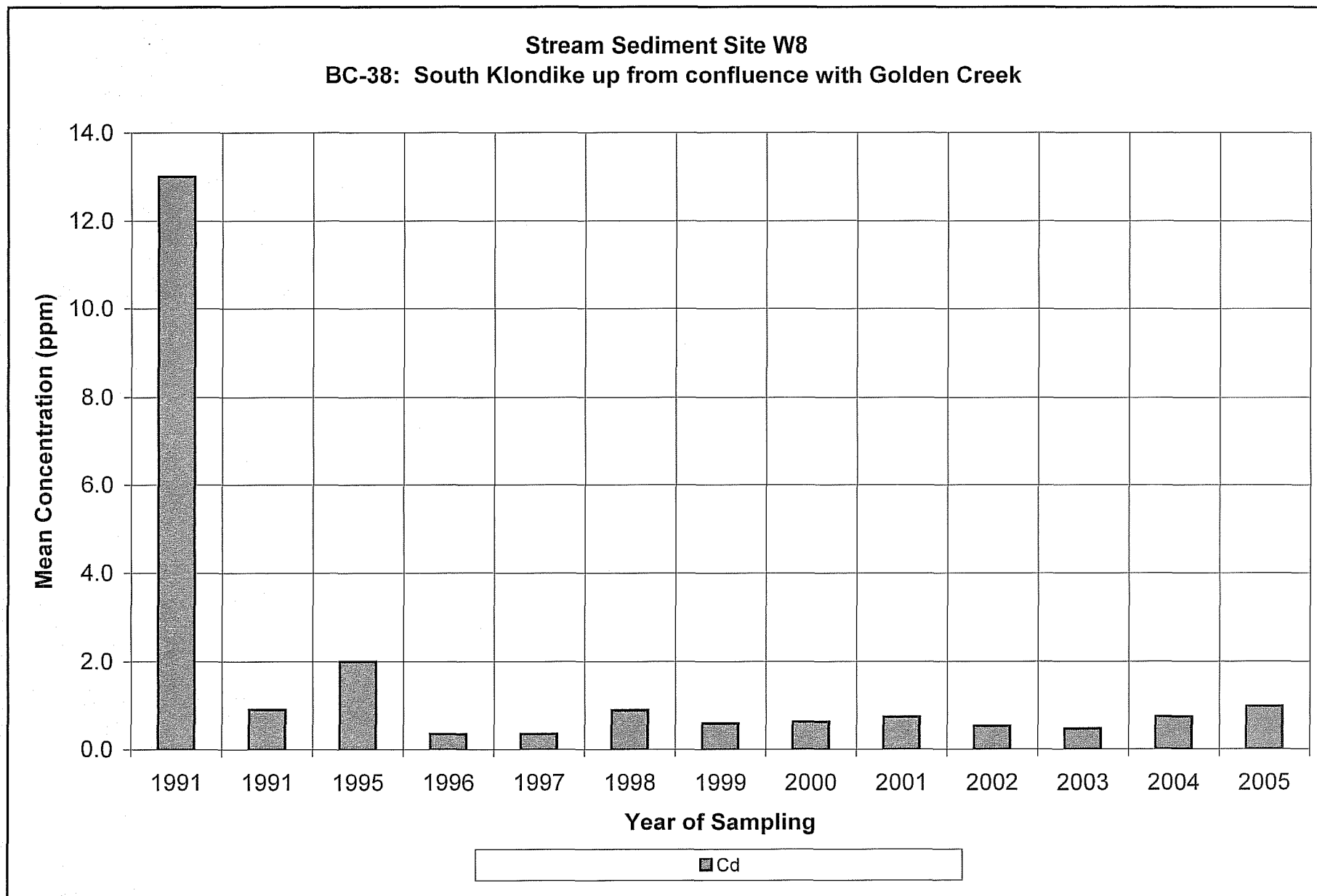
* all values represent mean of replicate samples

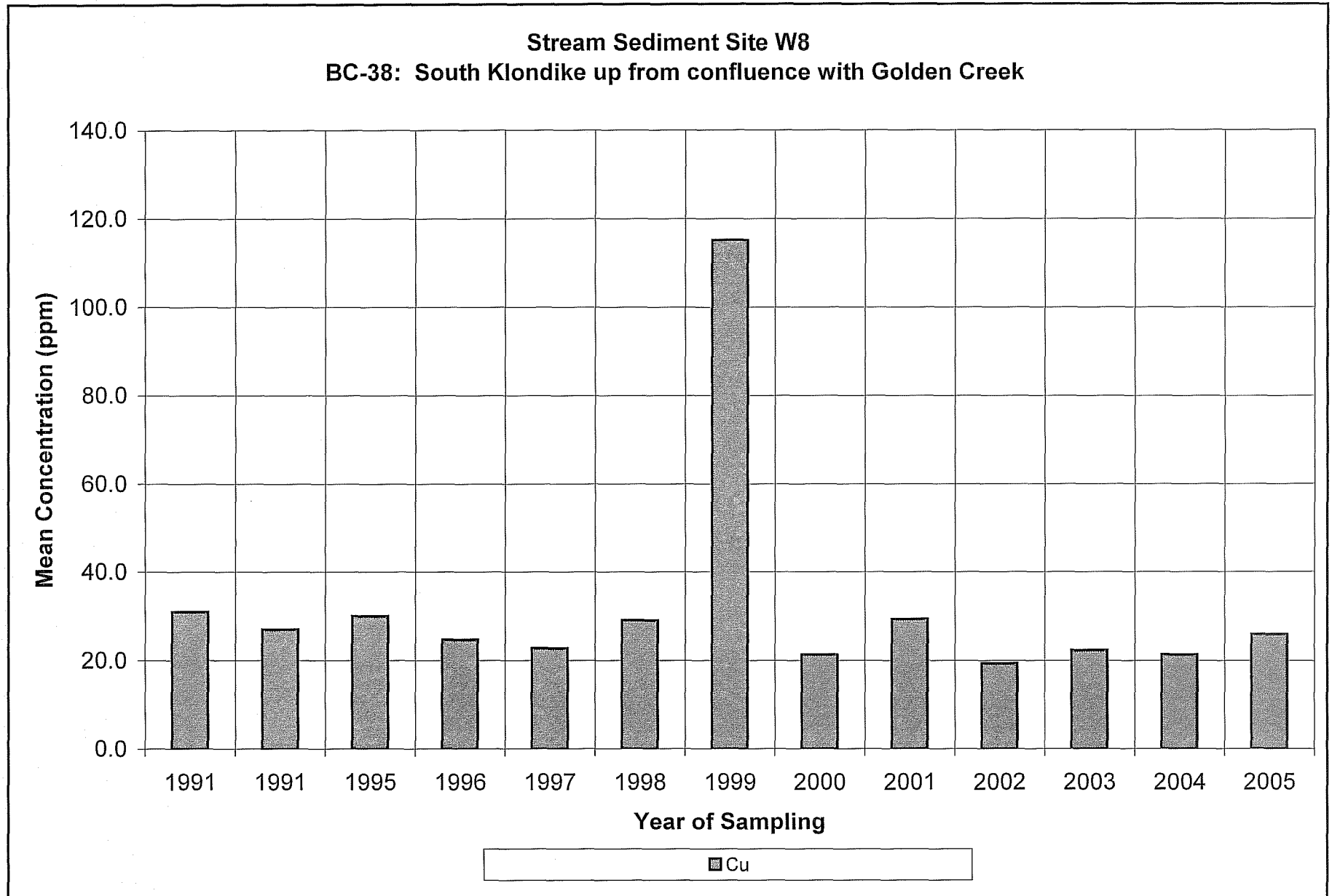
Stream Sediment Site W8
BC-38: South Klondike up from confluence with Golden Creek



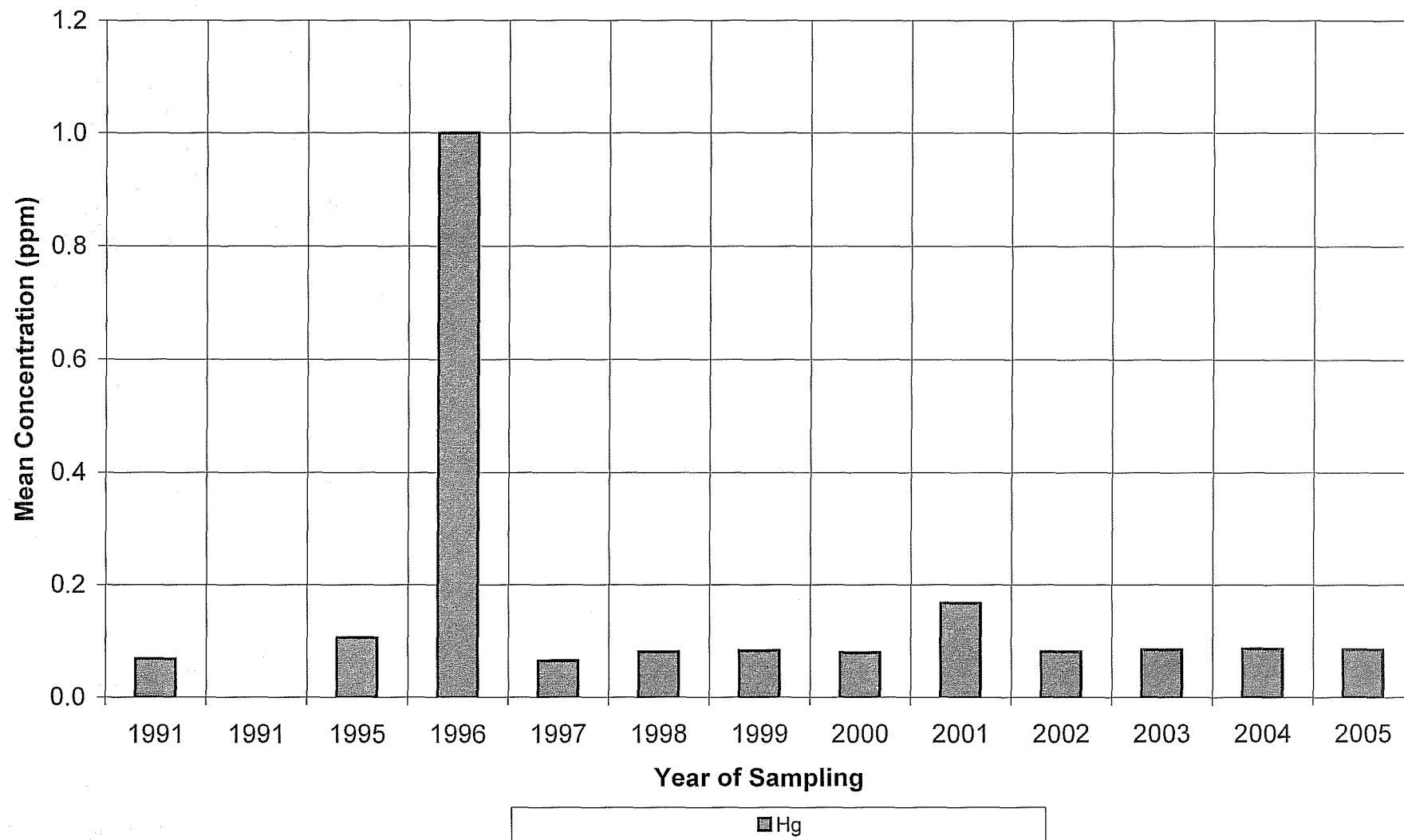
Stream Sediment Site W8
BC-38: South Klondike up from confluence with Golden Creek



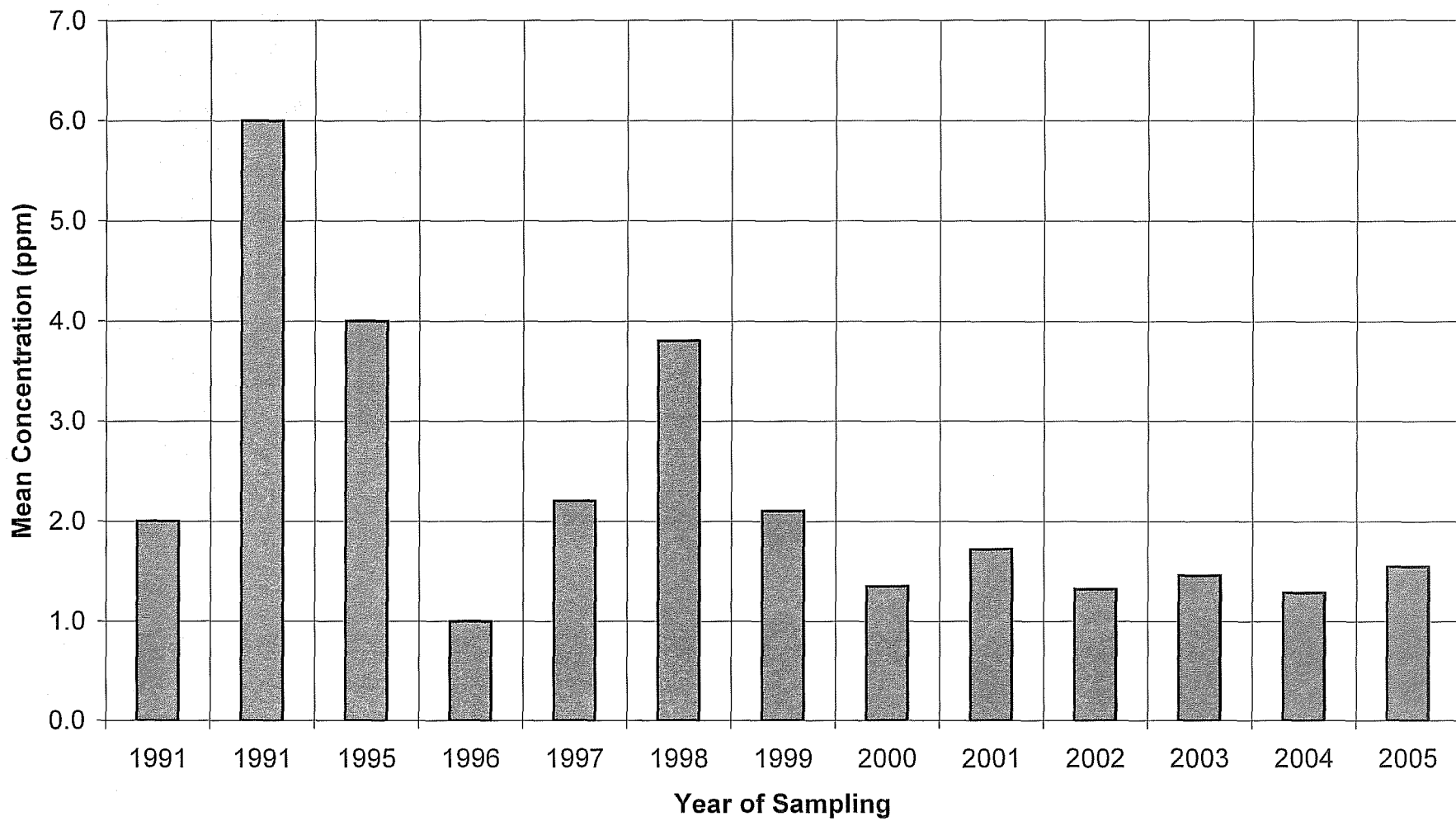




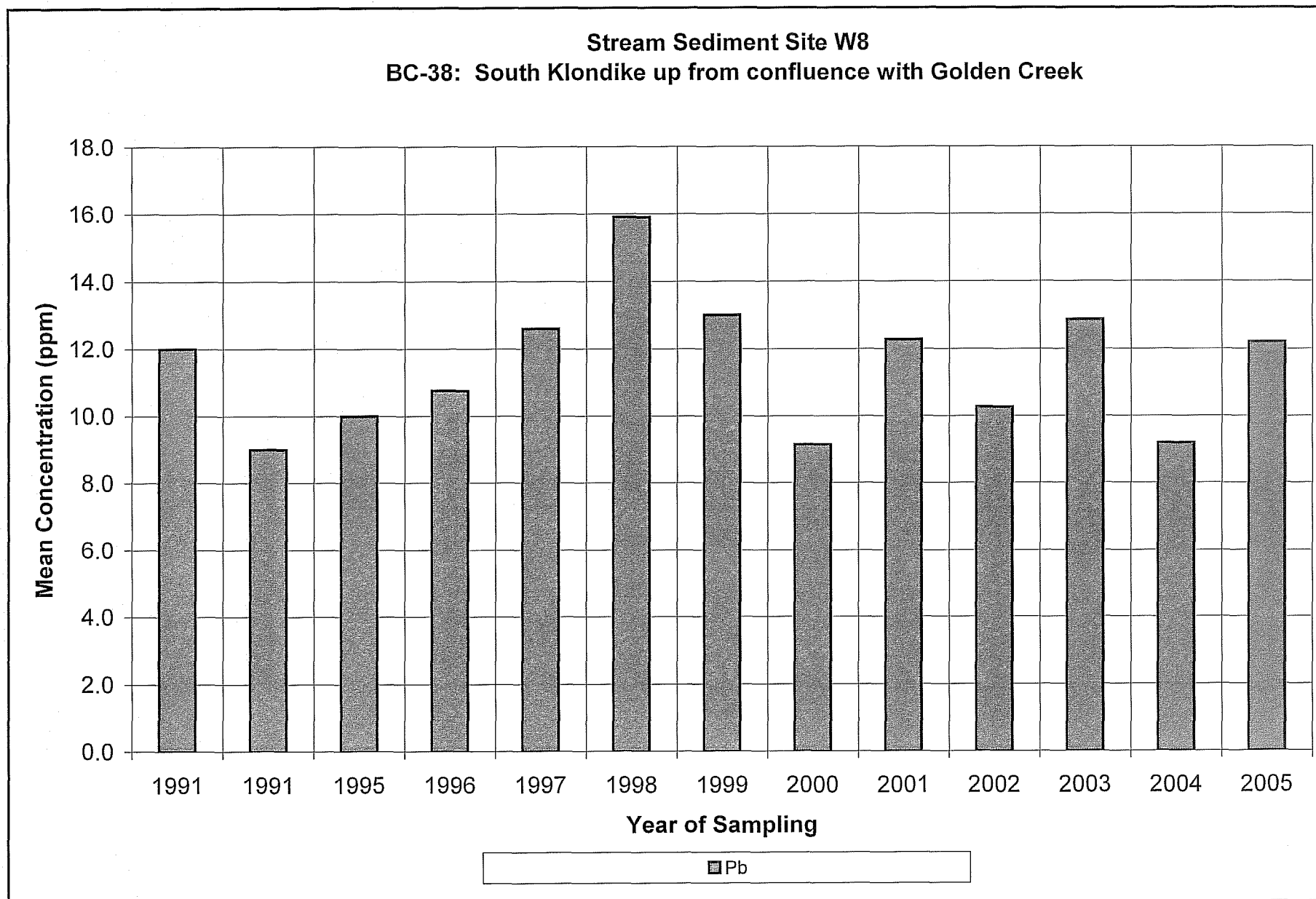
Stream Sediment Site W8
BC-38: South Klondike up from confluence with Golden Creek



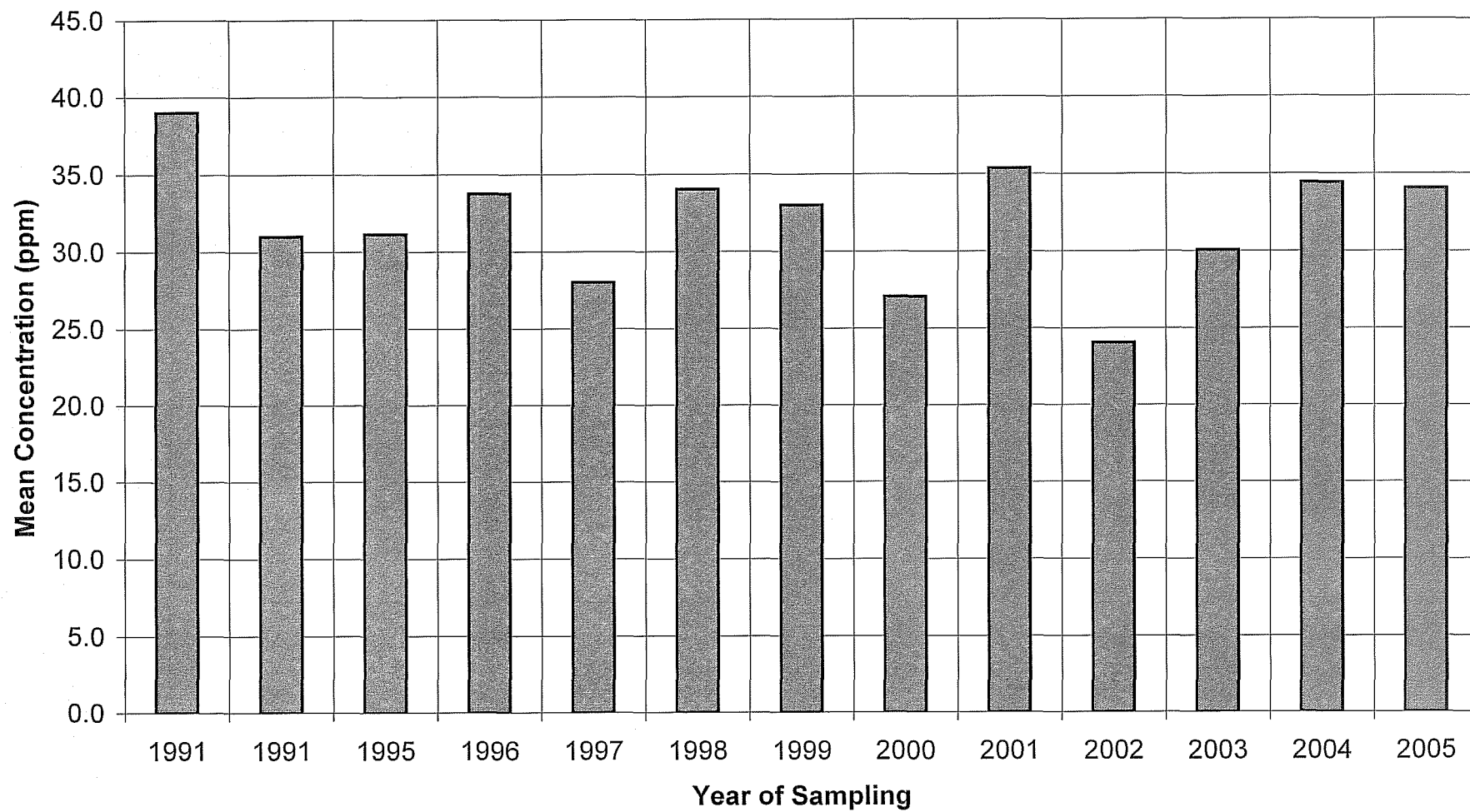
Stream Sediment Site W8
BC-38: South Klondike up from confluence with Golden Creek



Mo

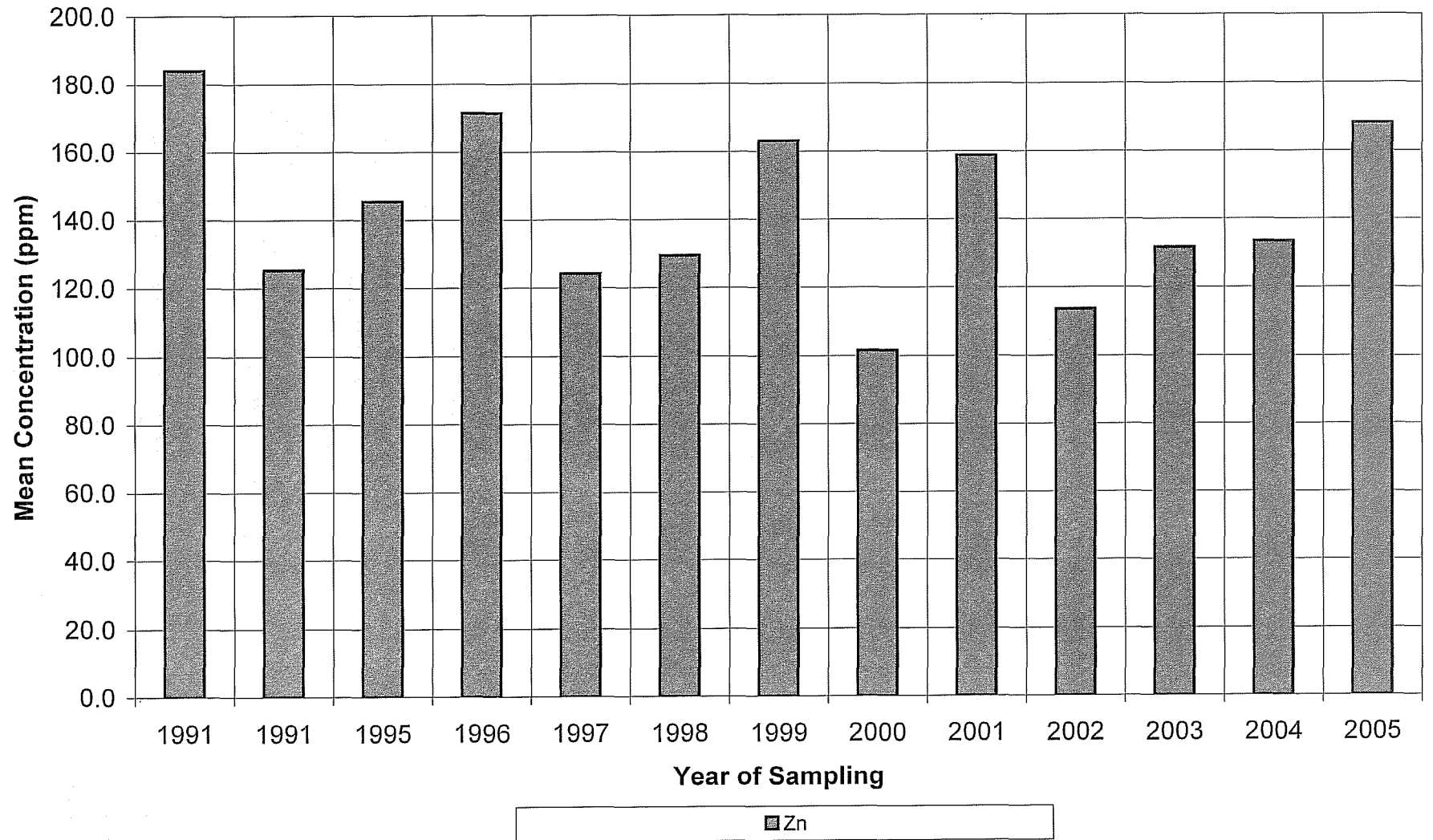


Stream Sediment Site W8
BC-38: South Klondike up from confluence with Golden Creek

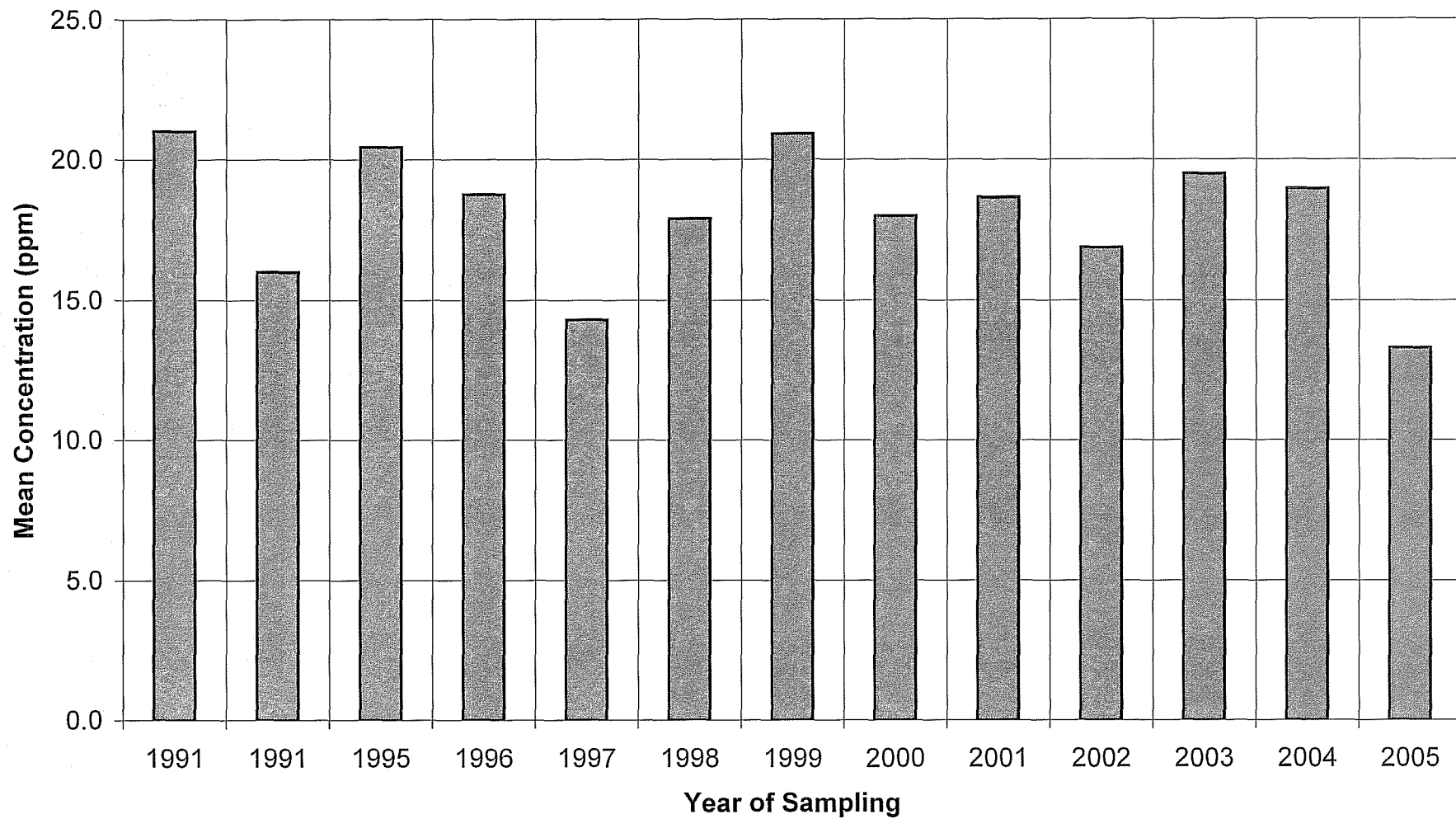


■ Ni

Stream Sediment Site W8
BC-38: South Klondike up from confluence with Golden Creek

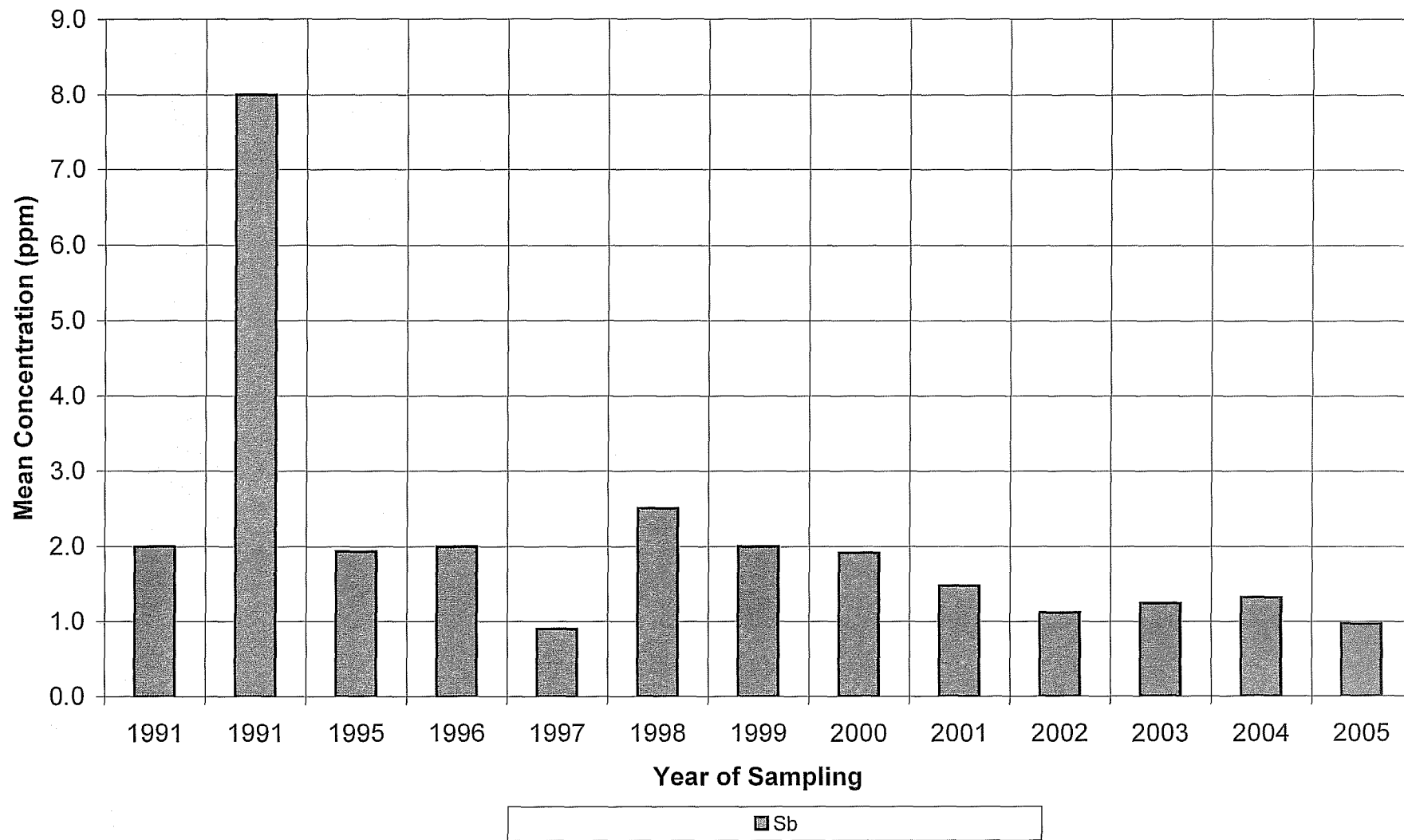


Stream Sediment Site W9
BC-6: South Klondike down from confluence with Lee Creek

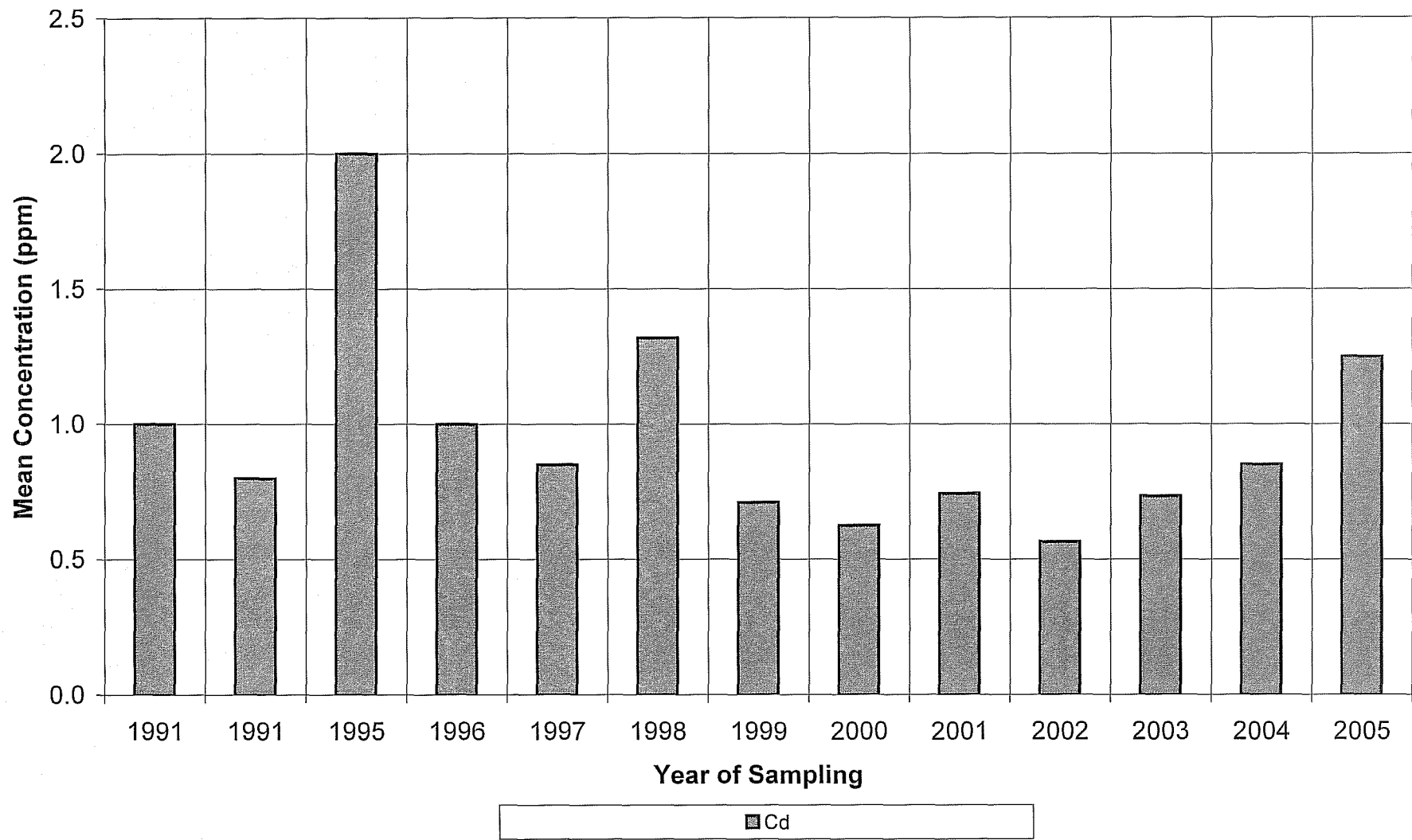


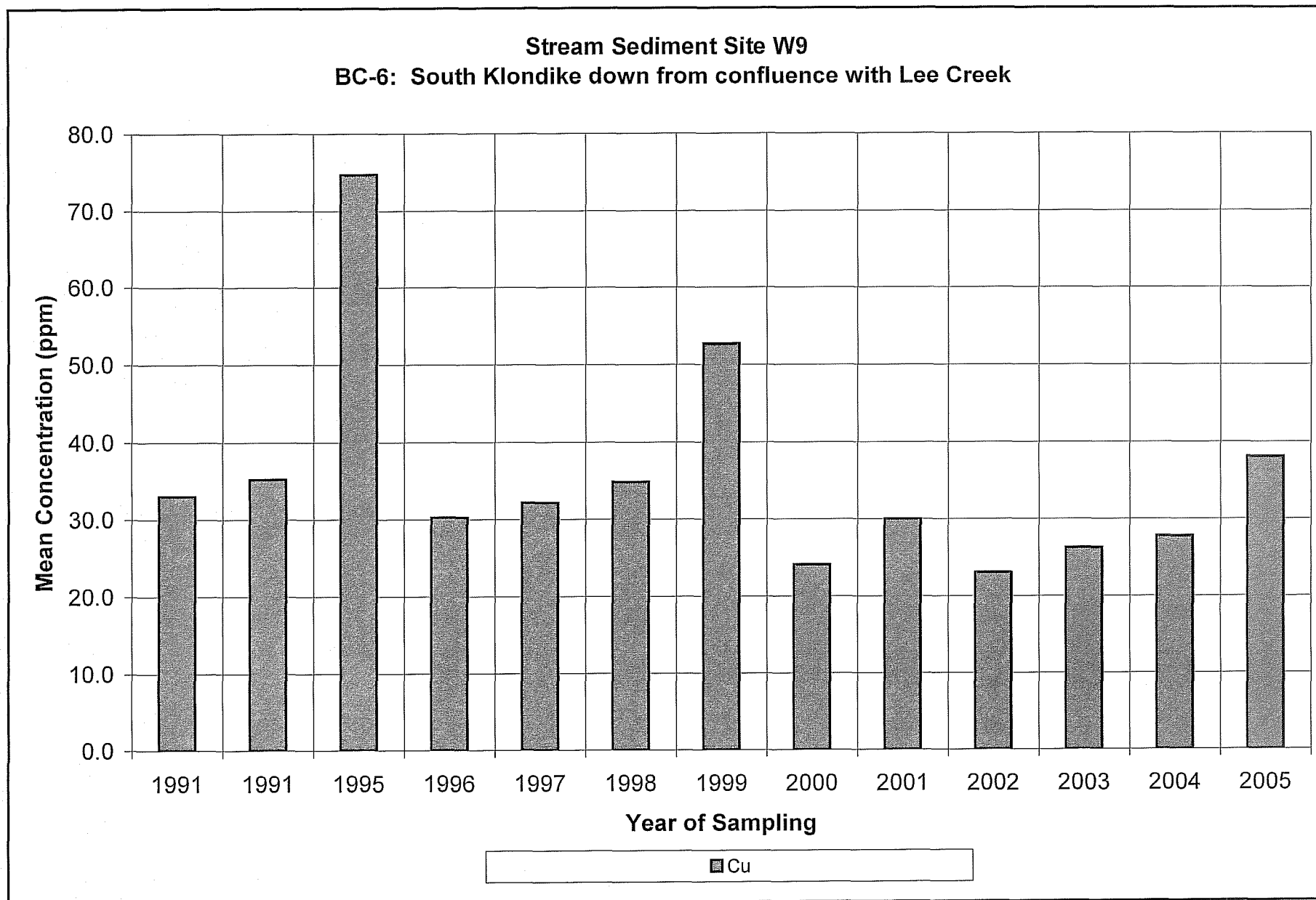
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Stream Sediment Site W9
BC-6: South Klondike down from confluence with Lee Creek

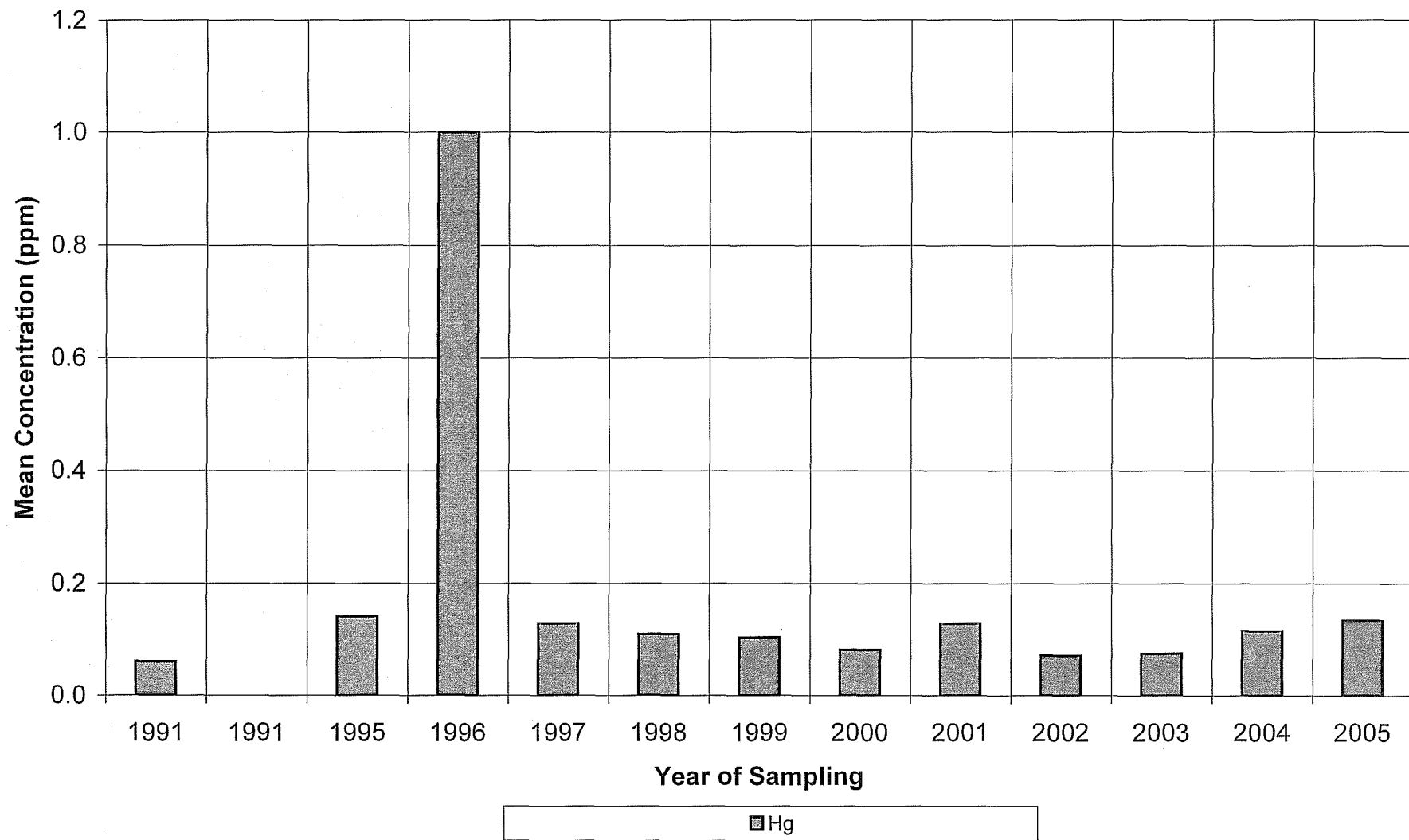


Stream Sediment Site W9
BC-6: South Klondike down from confluence with Lee Creek

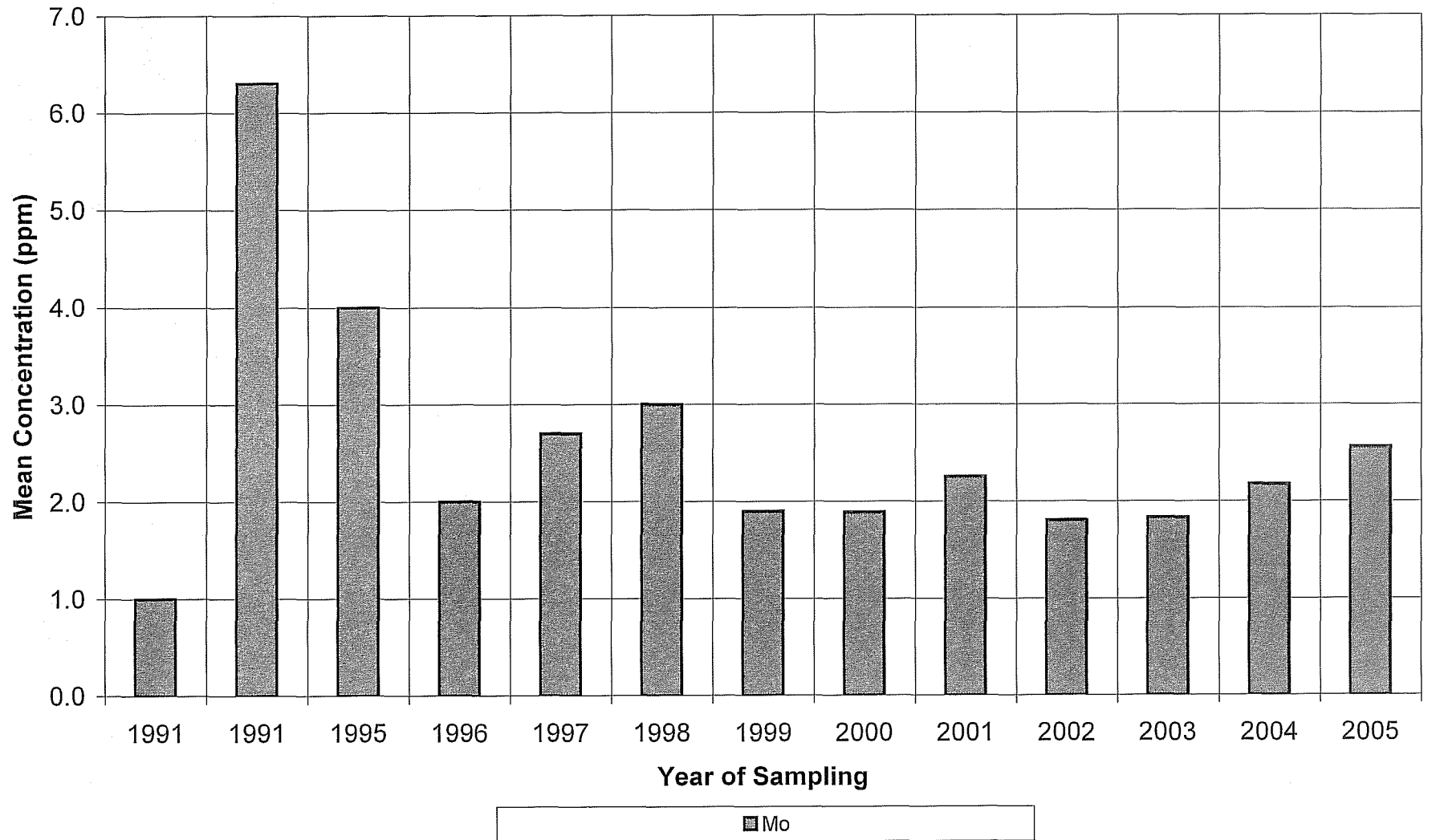


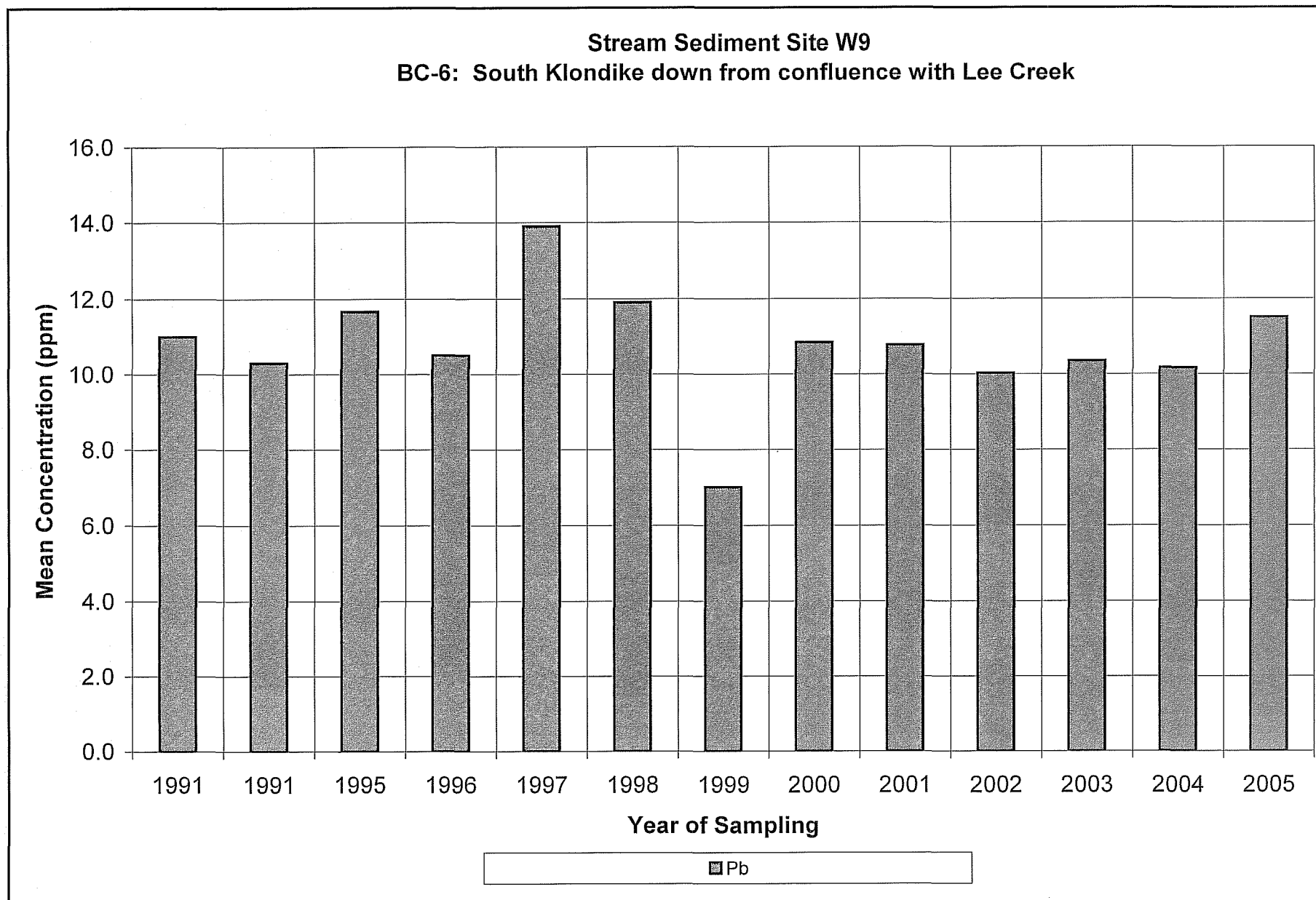


Stream Sediment Site W9
BC-6: South Klondike down from confluence with Lee Creek

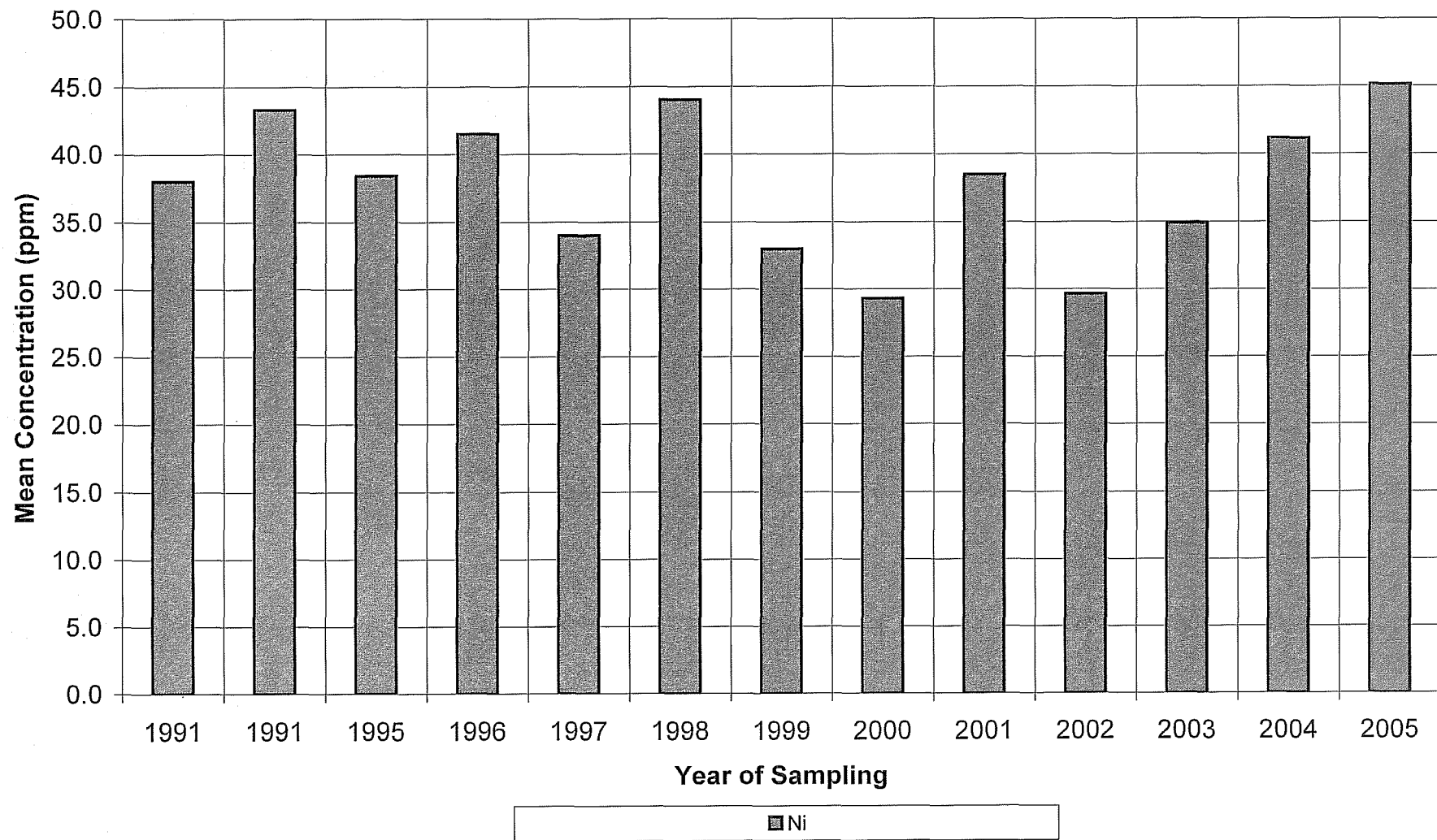


Stream Sediment Site W9
BC-6: South Klondike down from confluence with Lee Creek

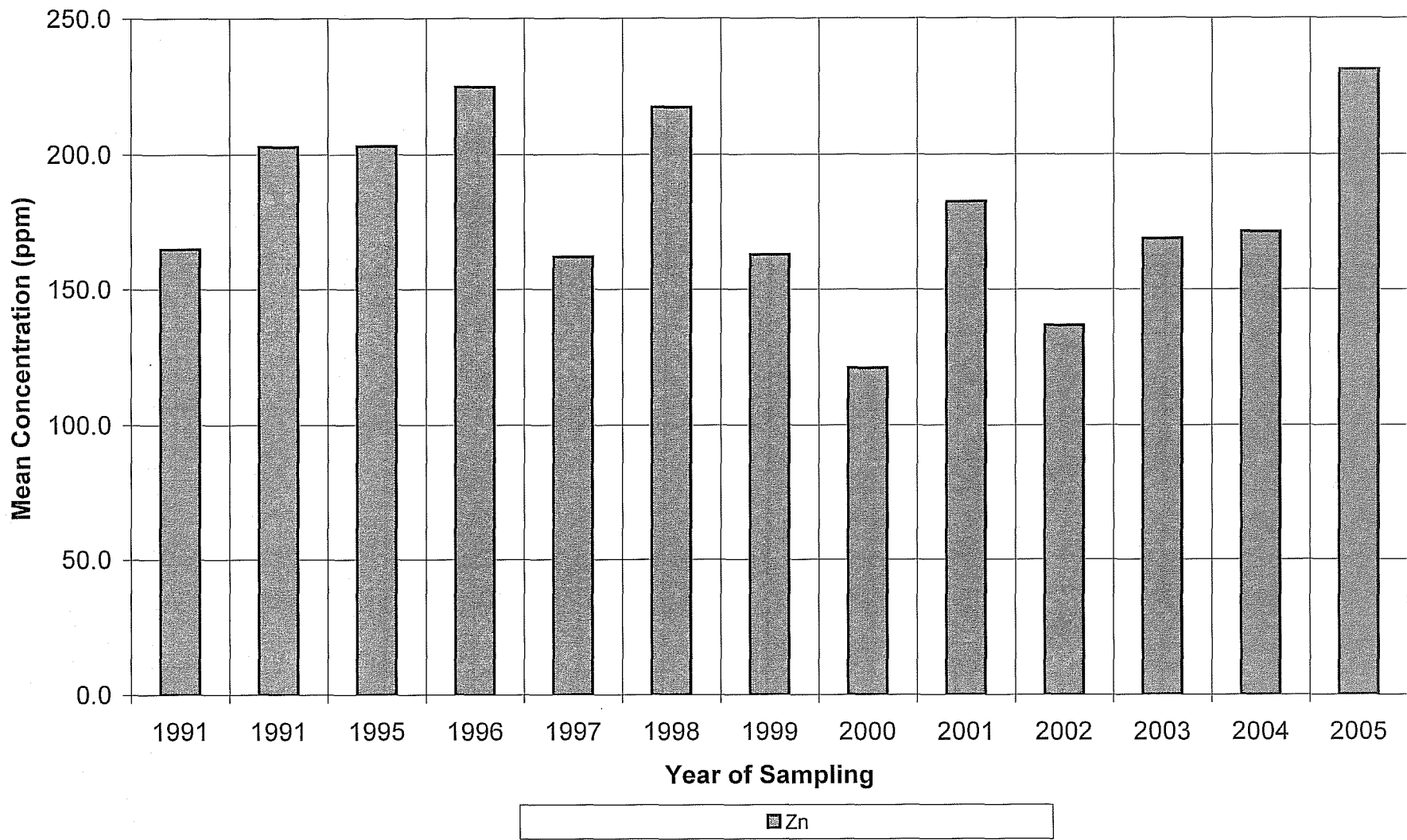




Stream Sediment Site W9
BC-6: South Klondike down from confluence with Lee Creek



Stream Sediment Site W9
BC-6: South Klondike down from confluence with Lee Creek



Stream Sediment Analysis: HISTORICAL COMPARISON

Laura Creek and Carolyn Creek Monitoring Stations													
W03													
BC-32													
		1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	
As	ppm	108.6	47.0	61.9	104.5	263.0	103.5	100.8	79.1	128.0	216.4	157.0	
Sb	ppm	94.2	43.0	61.9	83.8	162.6	47.8	61.6	41.7	31.4	59.9	42.9	
Cd	ppm	2.0	1.3	1.6	2.6	1.1	2.0	2.3	1.8	2.5	2.0	1.7	
Cu	ppm	32.3	23.0	31.4	32.3	51.6	35.1	36.2	27.5	36.5	34.7	48.3	
Hg	ppm	0.4	0.3	0.6	0.6	0.5	0.5	0.6	0.5	0.5	0.4	0.8	
Mo	ppm	4.0	3.0	4.5	6.1	9.1	5.3	5.3	4.2	5.2	6.7	6.2	
Pb	ppm	15.0	12.0	21.3	22.1	19.0	17.6	21.9	16.6	22.9	16.6	22.8	
Ni	ppm	33.3	34.0	42.0	45.0	48.0	35.6	45.2	34.5	48.4	55.8	36.7	
Zn	ppm	199.0	204.0	224.1	278.4	203.0	177.9	248.1	202.8	281.0	224.7	184.0	

Laura Creek and Carolyn Creek Monitoring Stations													
W04B													
BC-3													
		1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	
As	ppm	14.5	39.0	46.8	64.4	79.3	112.1	51.6	34.7	71.8	21.5	24.3	
Sb	ppm	4.3	17.0	25.1	30.5	30.5	321.3	19.9	13.1	12.8	9.4	4.9	
Cd	ppm	2.0	0.6	1.0	1.1	1.1	1.7	1.0	1.0	1.1	0.5	0.7	
Cu	ppm	27.4	23.0	30.8	27.3	65.7	33.3	26.1	22.0	24.9	16.3	35.8	
Hg	ppm	0.0	0.1	0.1	0.2	0.3	0.5	0.2	0.2	0.2	0.1	0.1	
Mo	ppm	4.0	1.0	3.0	2.9	3.3	3.3	2.0	1.8	2.1	1.3	1.5	
Pb	ppm	11.0	10.0	27.1	20.1	22.0	25.8	14.0	11.6	13.8	8.4	16.6	
Ni	ppm	24.5	34.0	39.0	43.0	40.0	43.3	42.5	32.0	43.7	29.6	38.2	
Zn	ppm	66.8	157.0	159.7	187.0	205.0	176.5	183.9	138.3	189.1	99.9	129.0	

Laura Creek and Carolyn Creek Monitoring Stations													
W15													
BC-2													
		1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	
As	ppm	10.7	11.0	12.6	20.2	16.0	16.4	14.2	12.0	19.6	8.0	12.8	
Sb	ppm	1.6	2.0	3.8	4.0	3.8	2.9	2.7	2.2	2.8	1.5	1.6	
Cd	ppm	2.0	0.2	0.6	1.1	0.7	0.7	0.5	0.6	0.7	0.3	0.6	
Cu	ppm	17.9	21.0	35.7	47.3	43.6	32.6	27.0	25.1	31.3	14.4	30.5	
Hg	ppm	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
Mo	ppm	4.0	1.0	1.8	1.8	0.9	0.9	0.8	0.7	1.0	0.5	1.2	
Pb	ppm	10.0	7.0	22.2	20.2	8.0	14.8	13.1	11.9	15.5	8.7	16.2	
Ni	ppm	18.2	22.0	28.0	36.0	24.0	24.9	27.6	21.8	31.7	24.2	29.3	
Zn	ppm	61.3	74.0	68.6	88.2	81.0	59.9	78.9	64.6	88.8	69.0	84.4	

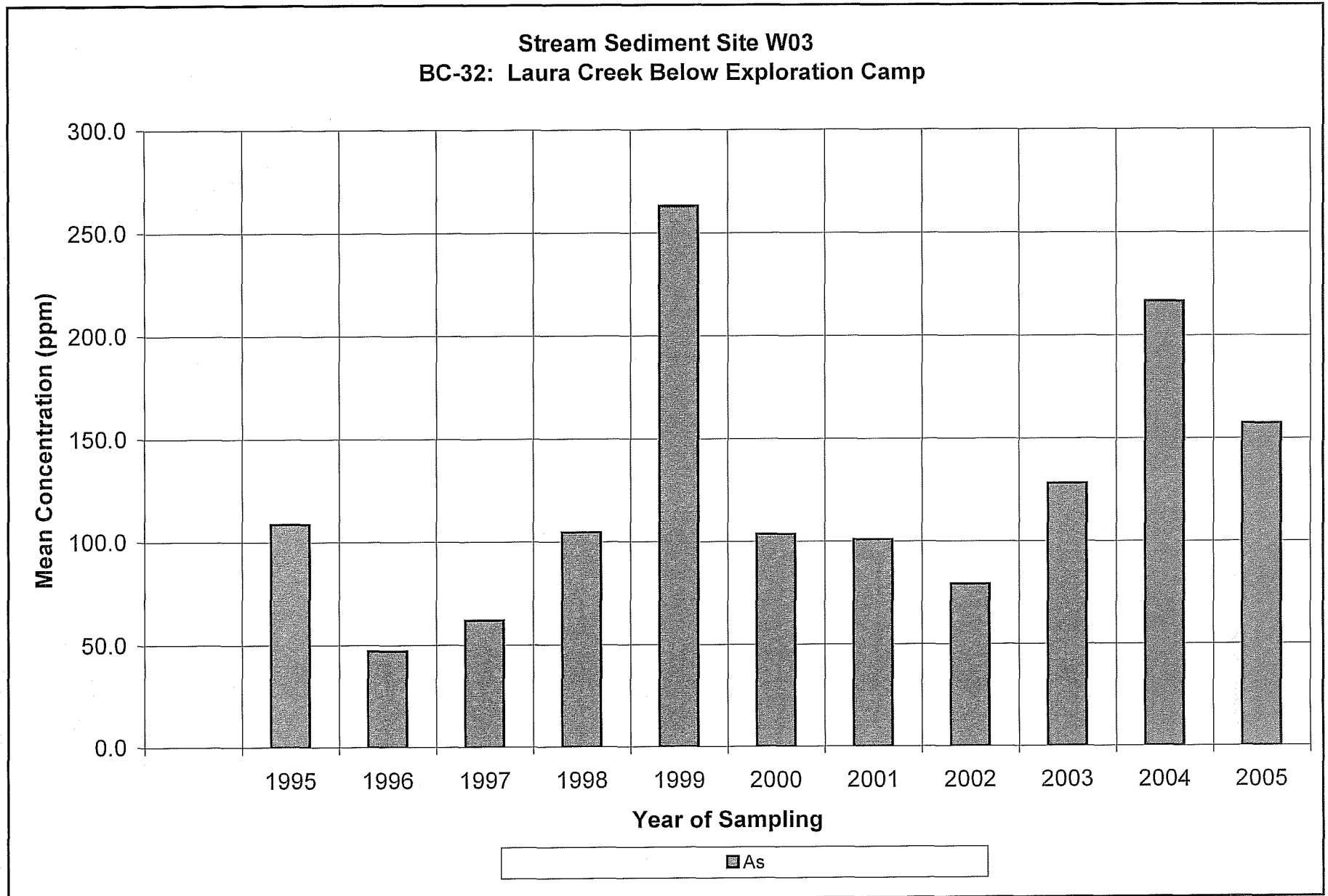
Laura Creek and Carolyn Creek Monitoring Stations														
W05														
BC-1														
		1991	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
As	ppm	69.0	15.3	21.1	41.0	66.4	73.4	65.8	121.6	71.4	43.1	47.5	52.7	40.9
Sb	ppm	16.0	9.3	7.2	21.0	31.3	34.8	24.9	31.9	21.1	10.8	6.5	13.8	3.6
Cd	ppm	3.1	1.1	2.0	1.1	1.6	2.0	1.2	1.7	1.2	1.1	0.8	0.8	2.5
Cu	ppm	41.0	32.8	31.5	31.0	38.4	32.3	40.9	31.2	26.8	24.3	24.8	20.3	62.5
Hg	ppm	0.1	0.0	0.1	0.1	0.2	0.3	0.3	0.5	0.3	0.2	0.1	0.2	0.1
Mo	ppm	2.0	4.3	4.0	3.0	4.6	3.8	3.0	4.0	3.0	1.8	2.1	1.6	2.2
Pb	ppm	16.0	16.0	10.0	14.0	28.3	19.0	18.0	26.8	15.4	11.2	12.3	9.9	19.1
Ni	ppm	59.0	38.3	27.6	43.0	43.0	47.0	38.0	44.8	41.5	31.2	35.7	34.4	59.4
Zn	ppm	215.0	168.3	88.0	189.0	174.6	185.3	175.0	176.0	175.6	124.6	141.8	120.8	192.0

Stream Sediment Analysis: HISTORICAL COMPARISON

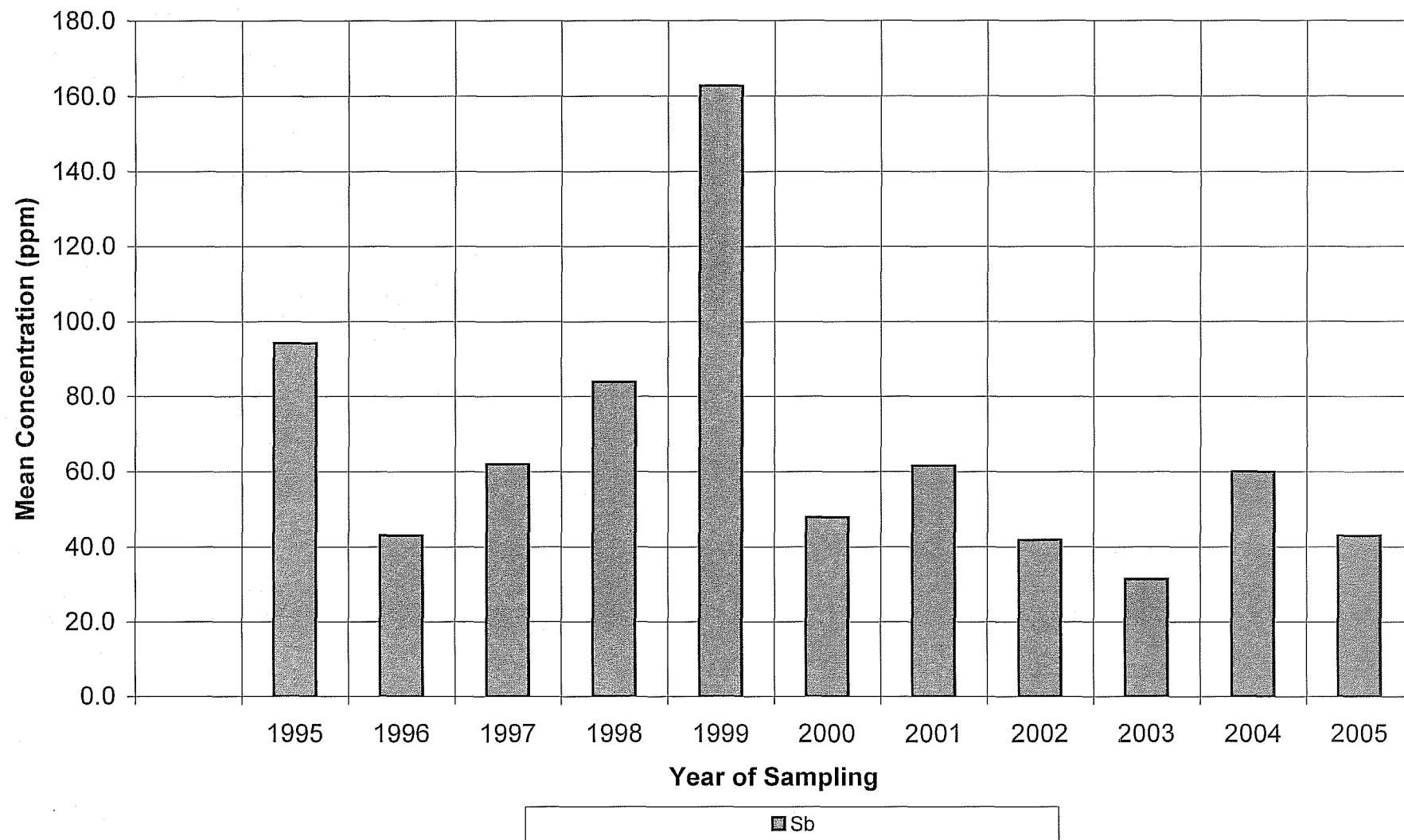
Laura Creek and Carolyn Creek Monitoring Stations														
W05A														
BC-37														
			1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	
As	ppm		28.1	46.0	77.4	70.1	80.9	70.9	99.3	41.8	61.8	39.5	42.8	
Sb	ppm		12.1	19.0	36.0	30.4	32.0	19.7	24.1	11.0	9.7	7.2	4.3	
Cd	ppm		2.0	0.6	1.7	1.7	1.8	1.3	2.0	1.3	1.2	1.0	1.7	
Cu	ppm		36.5	34.0	49.5	43.8	87.5	32.2	45.2	27.5	34.0	29.0	50.9	
Hg	ppm		0.1	0.2	0.3	0.3	0.4	0.2	0.5	0.3	0.2	0.1	0.1	
Mo	ppm		4.0	2.0	4.1	3.7	3.7	2.8	2.8	1.7	2.4	1.4	2.4	
Pb	ppm		10.0	14.0	20.4	17.9	13.0	15.6	16.5	13.3	15.4	10.9	20.0	
Ni	ppm		30.8	38.0	51.0	48.0	45.0	39.5	49.9	33.0	41.5	49.7	55.0	
Zn	ppm		108.3	166.0	179.5	192.8	222.0	150.4	191.6	137.5	171.2	161.8	188.0	

Laura Creek and Carolyn Creek Monitoring Stations														
W39														
BC-39														
			1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	
As	ppm											62.8	104.0	
Sb	ppm											11.1	10.9	
Cd	ppm											1.2	1.6	
Cu	ppm											29.2	35.4	
Hg	ppm											0.3	0.4	
Mo	ppm											2.5	3.4	
Pb	ppm											14.6	22.7	
Ni	ppm											41.2	42.5	
Zn	ppm											175.2	218.0	

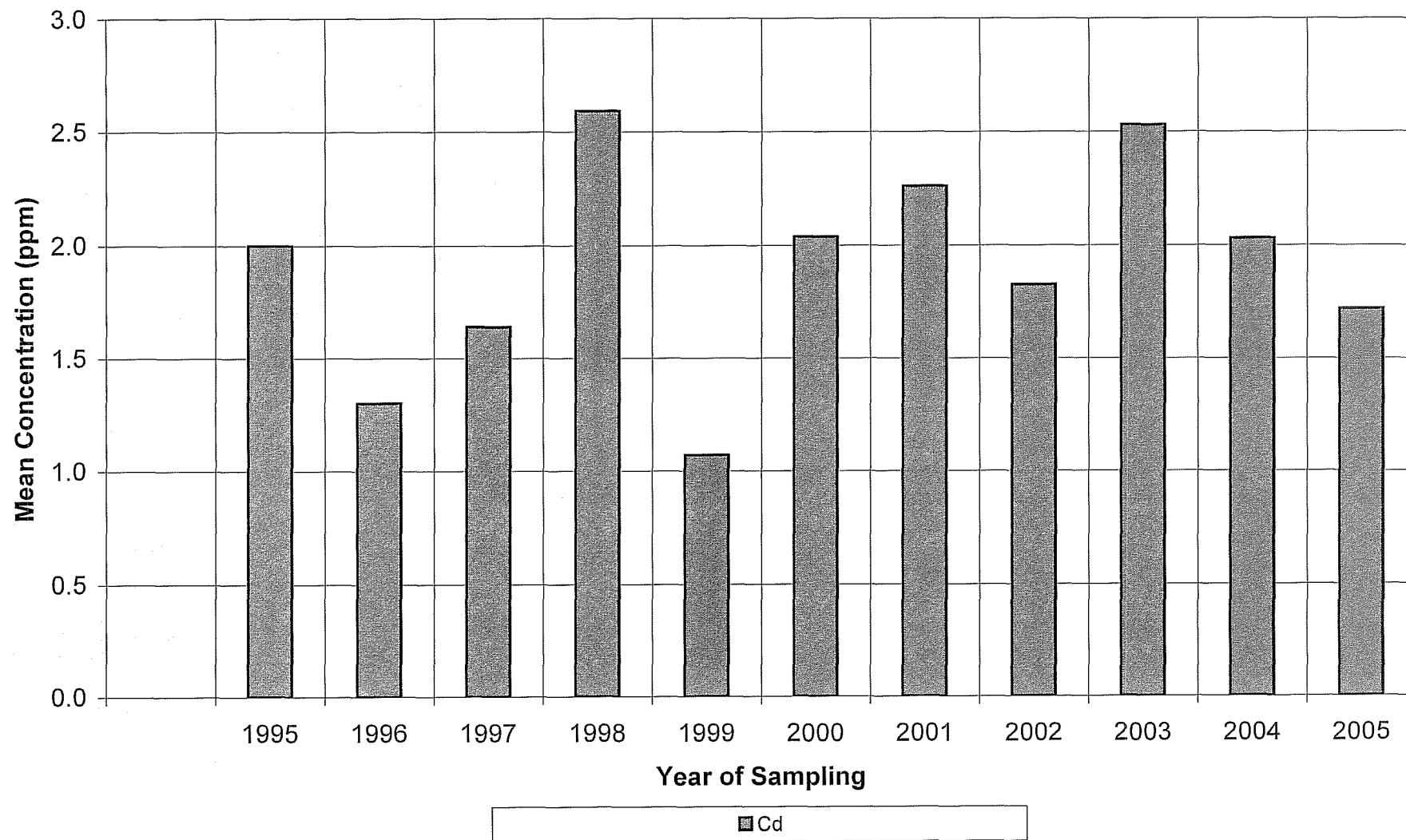
Laura Creek and Carolyn Creek Monitoring Stations														
W53														
BC-53														
			1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	
As	ppm										77.4	69.9	21.8	
Sb	ppm										11.7	15.8	2.2	
Cd	ppm										2.0	1.1	1.1	
Cu	ppm										47.6	25.6	29.5	
Hg	ppm										0.3	0.3	0.1	
Mo	ppm										2.4	1.7	1.3	
Pb	ppm										16.1	10.7	14.7	
Ni	ppm										52.1	39.9	35.5	
Zn	ppm										185.5	138.8	122.0	



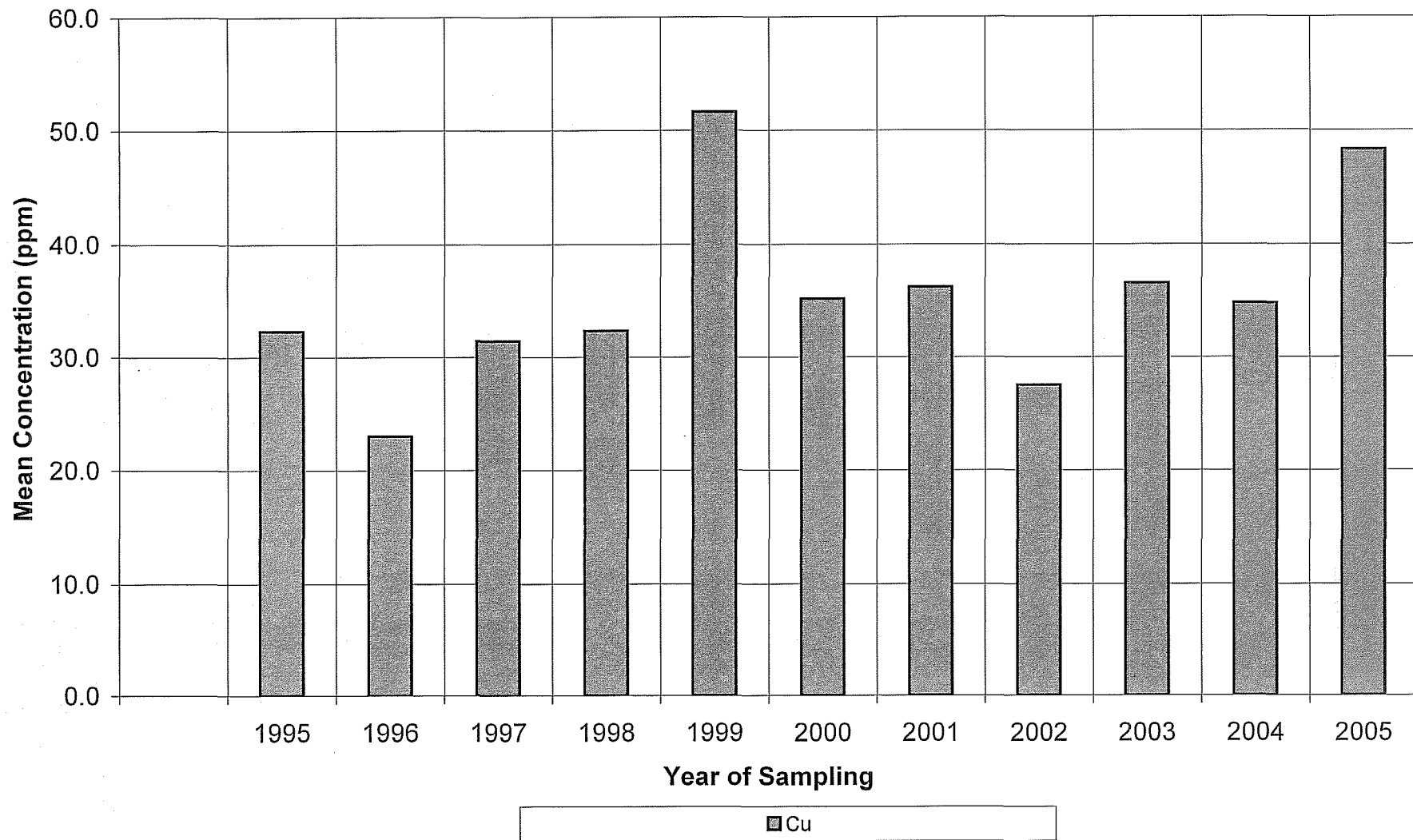
Stream Sediment Site W03
BC-32: Laura Creek Below Exploration Camp



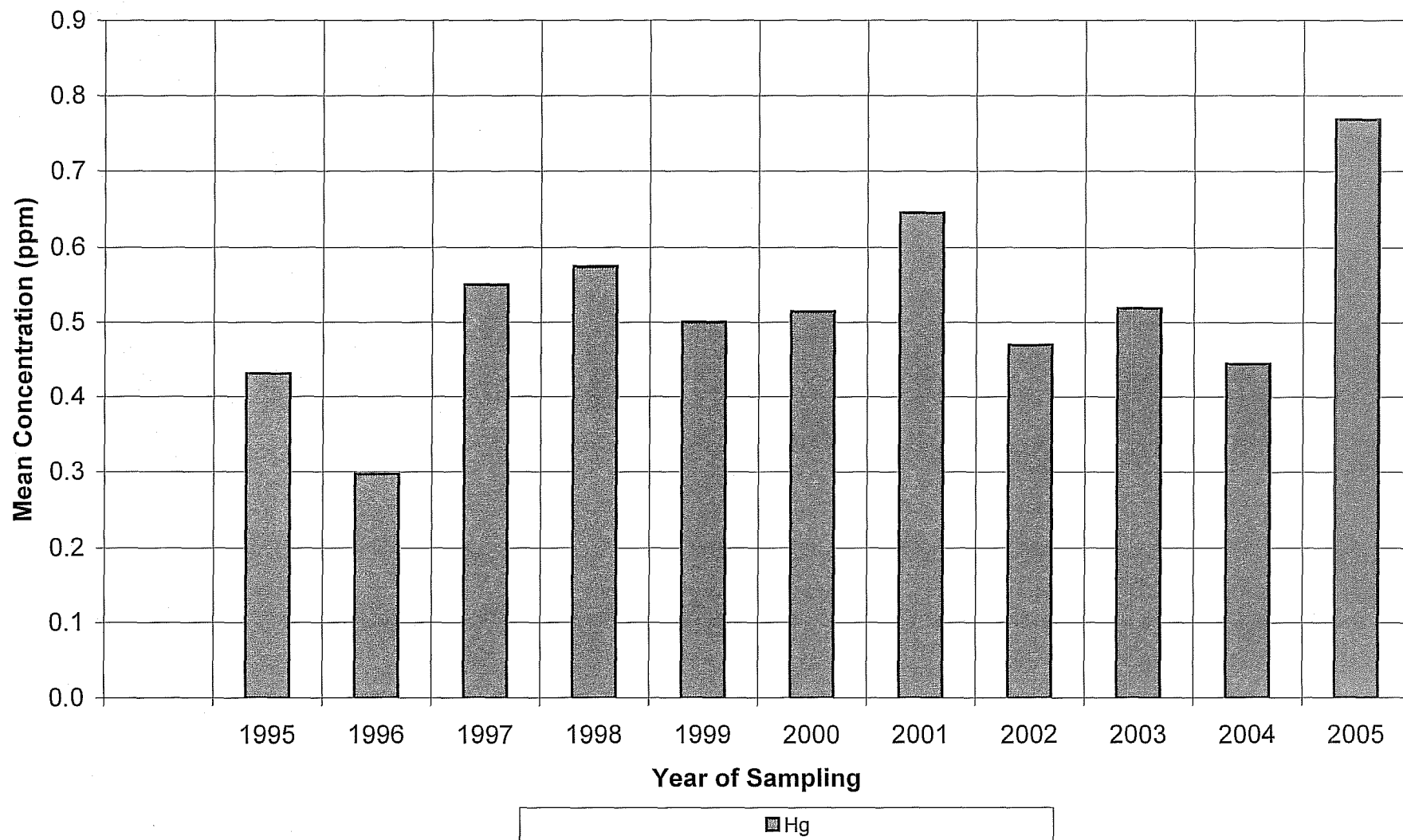
Stream Sediment Site W03
BC-32: Laura Creek Below Exploration Camp



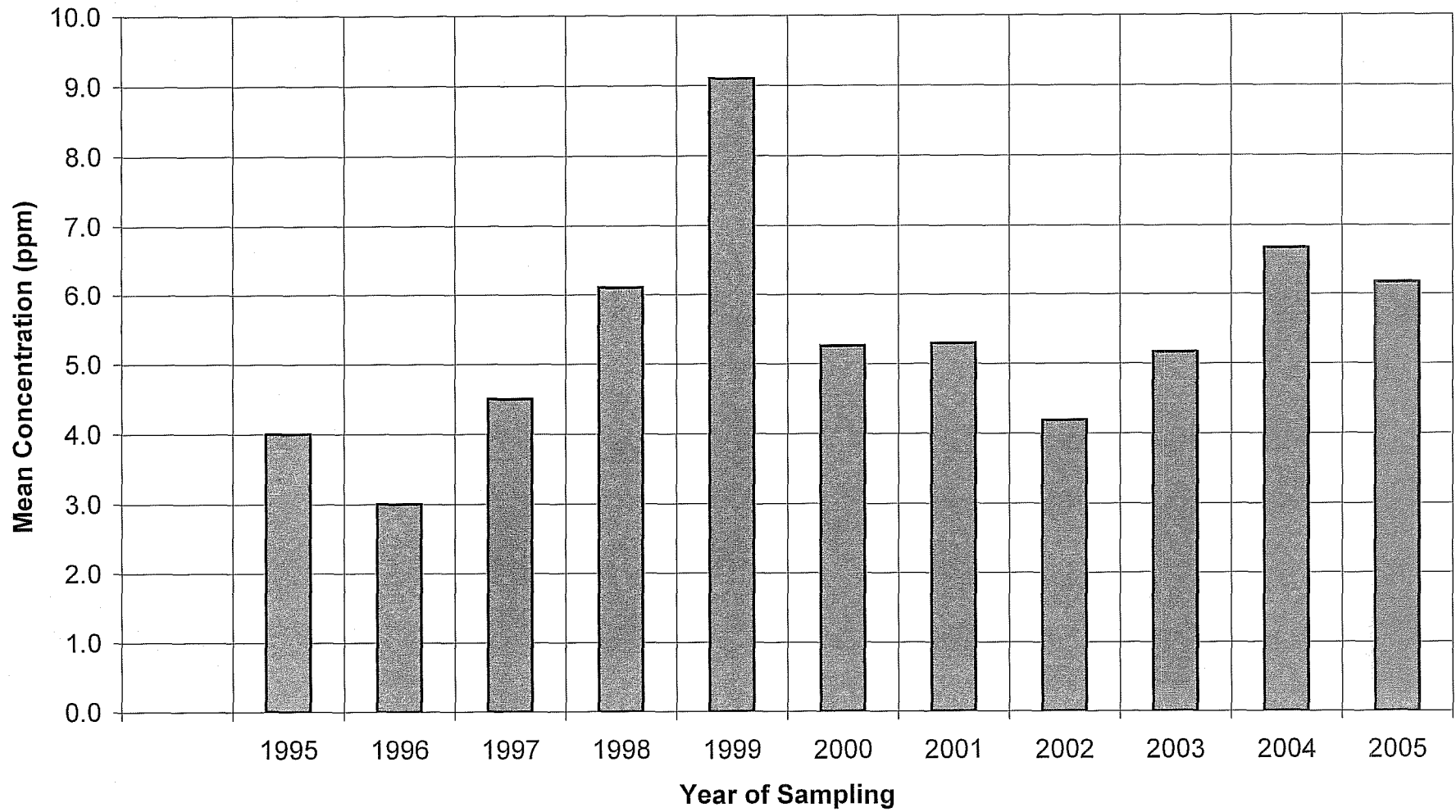
Stream Sediment Site W03
BC-32: Laura Creek Below Exploration Camp



Stream Sediment Site W03
BC-32: Laura Creek Below Exploration Camp

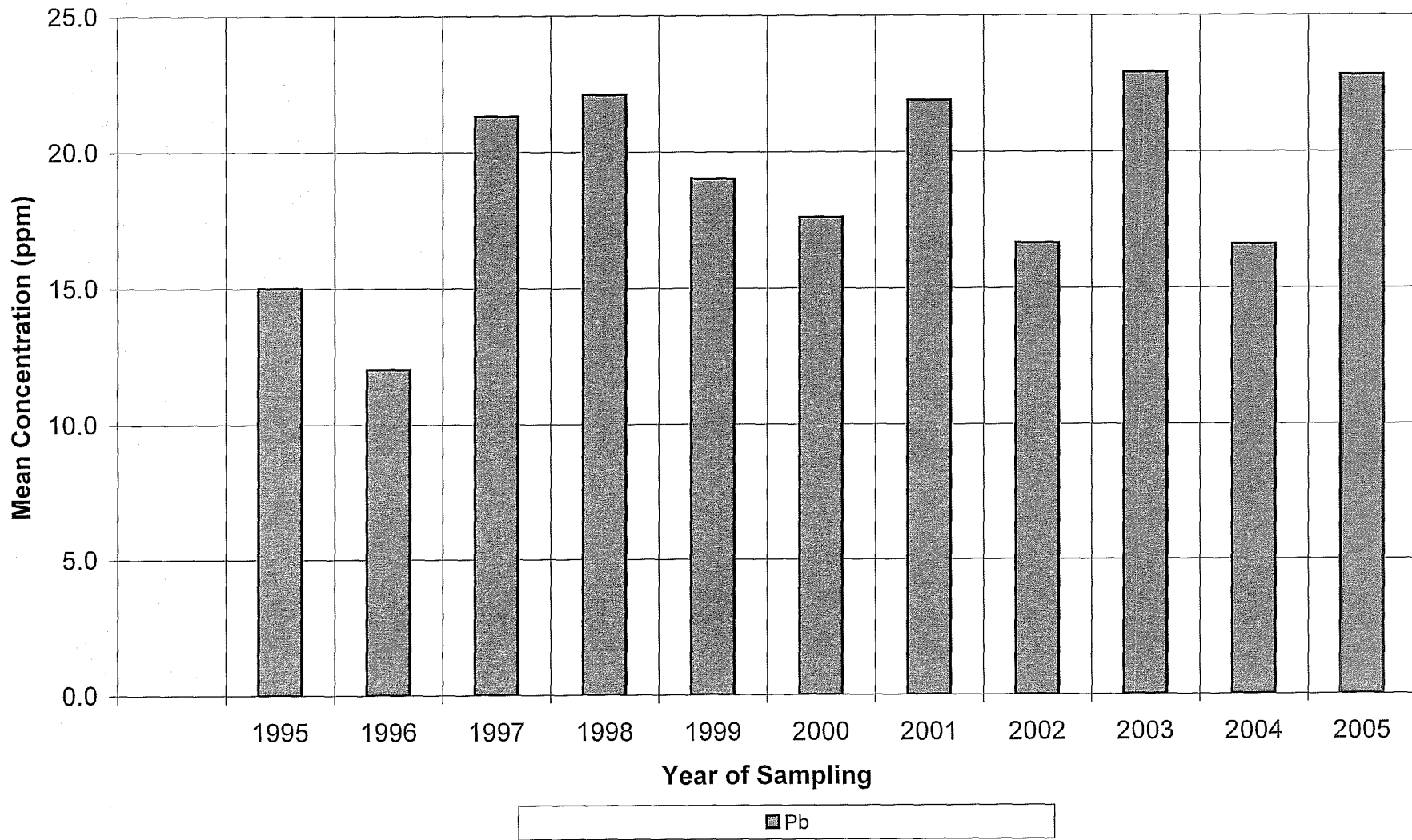


Stream Sediment Site W03
BC-32: Laura Creek Below Exploration Camp

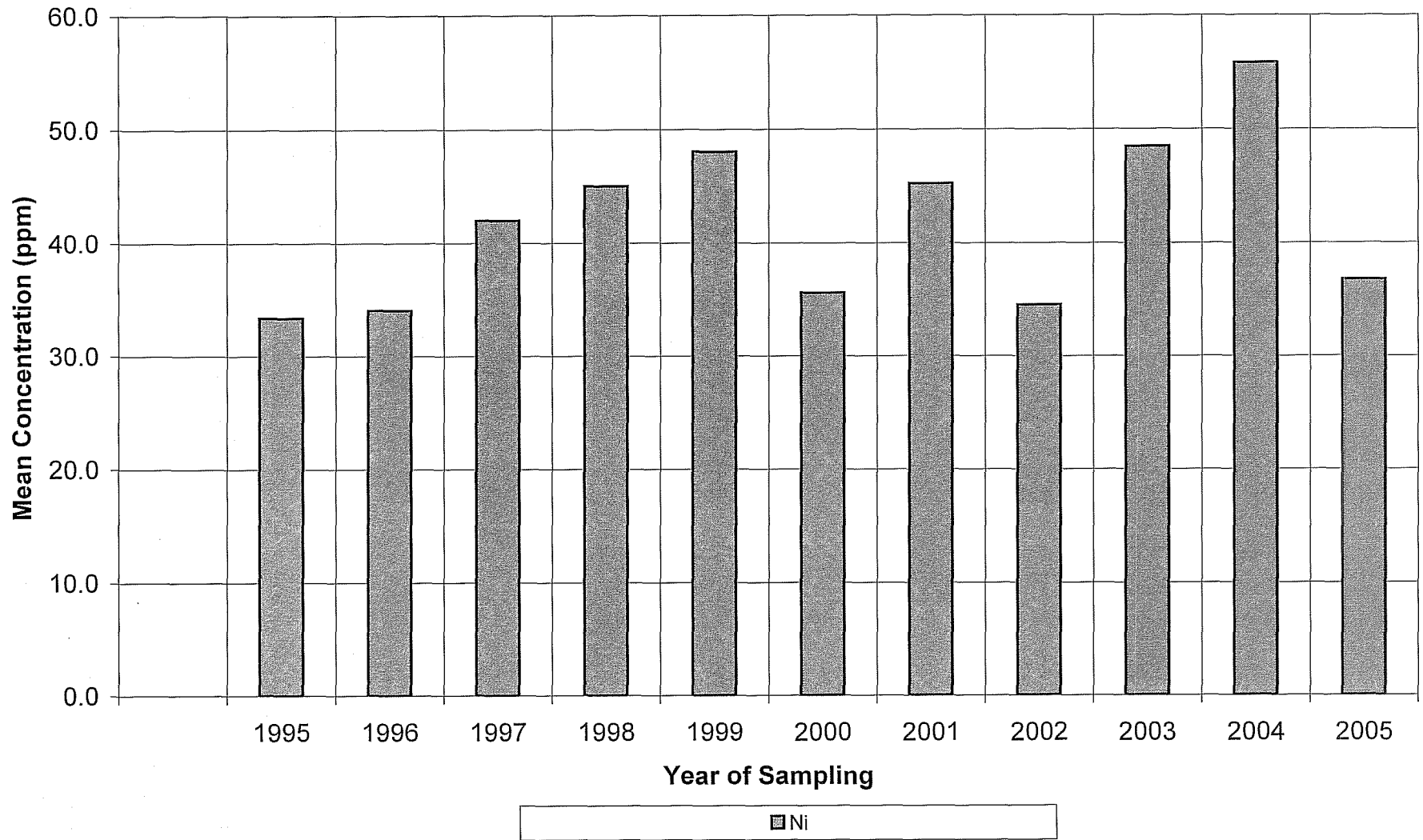


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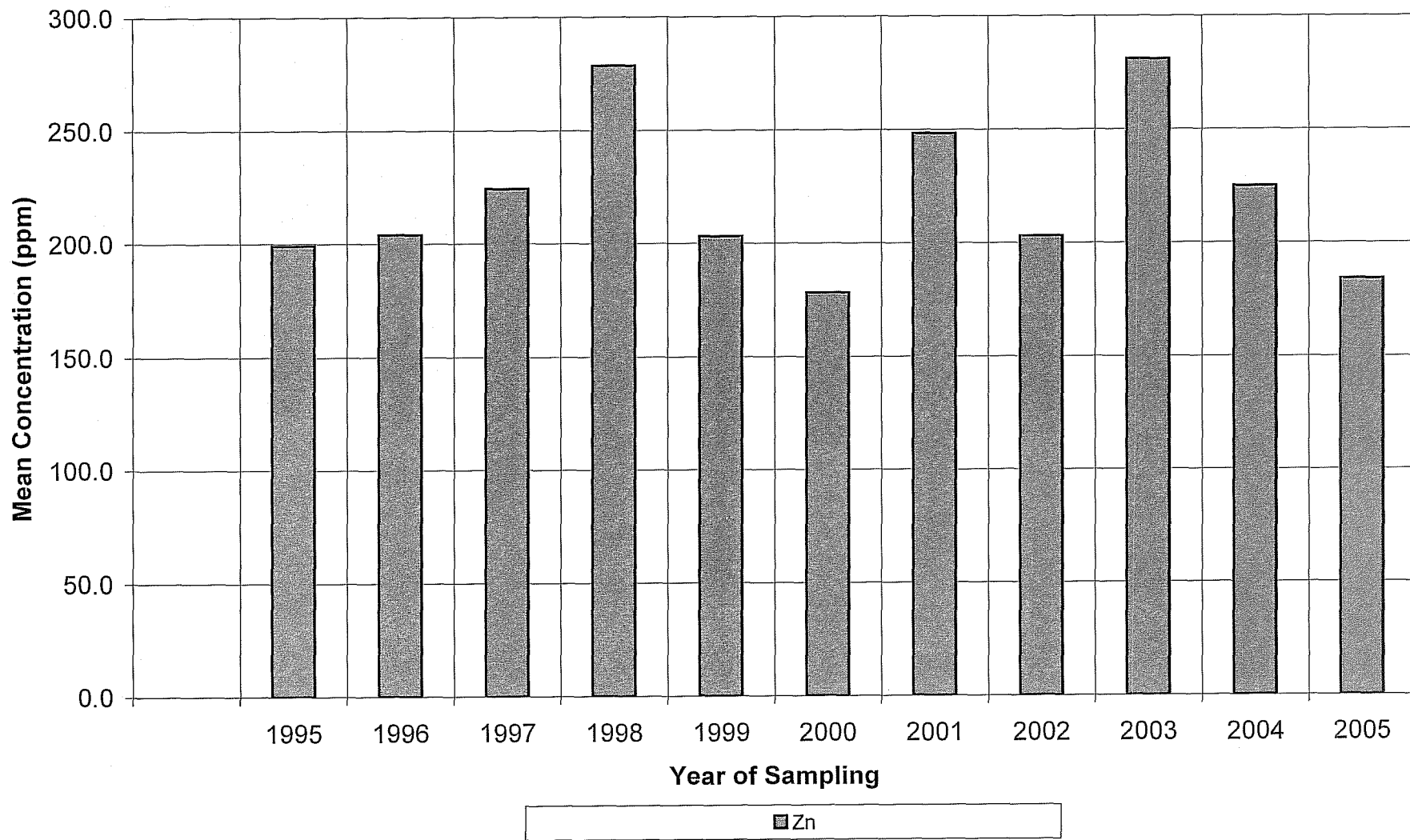
Stream Sediment Site W03
BC-32: Laura Creek Below Exploration Camp



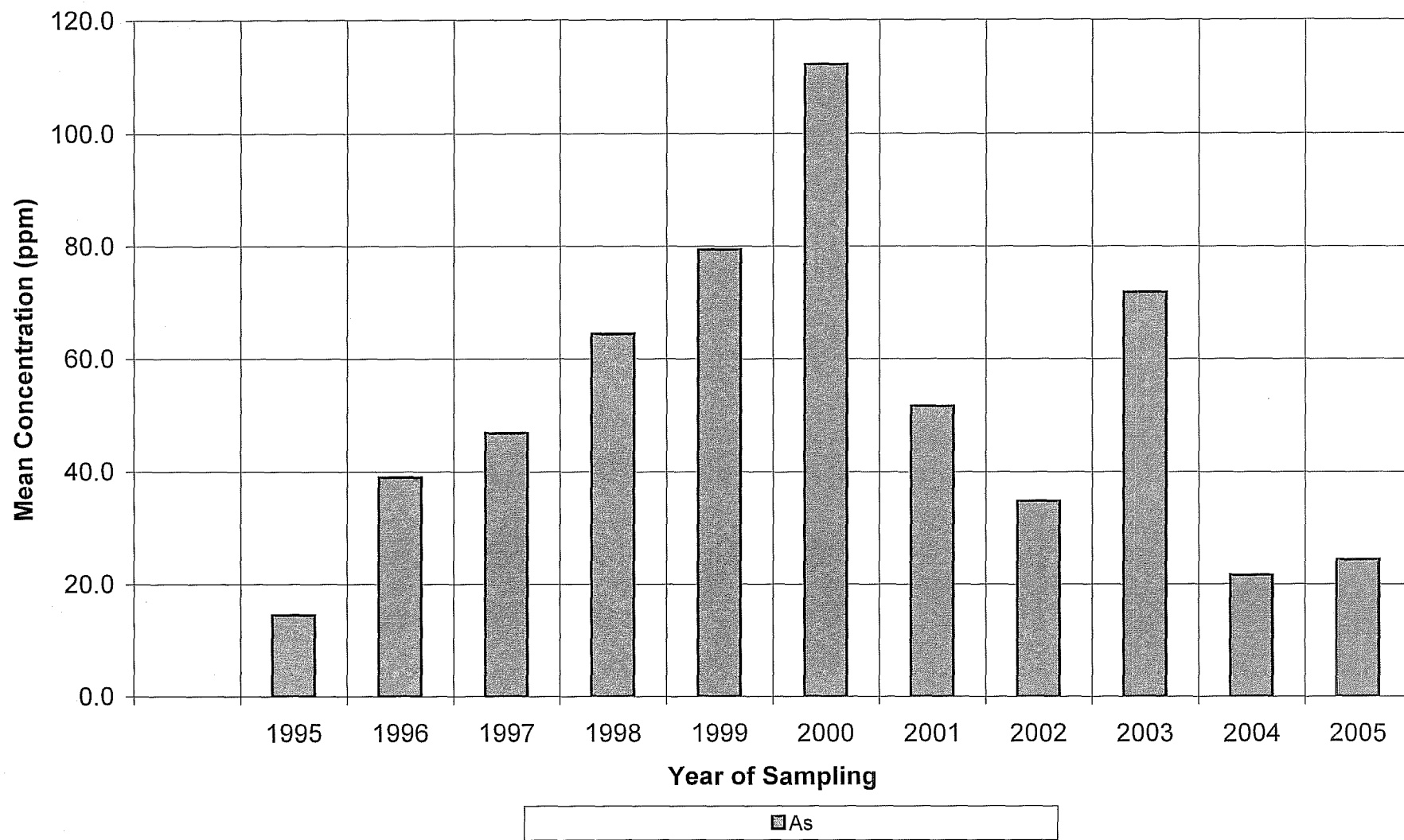
Stream Sediment Site W03
BC-32: Laura Creek Below Exploration Camp



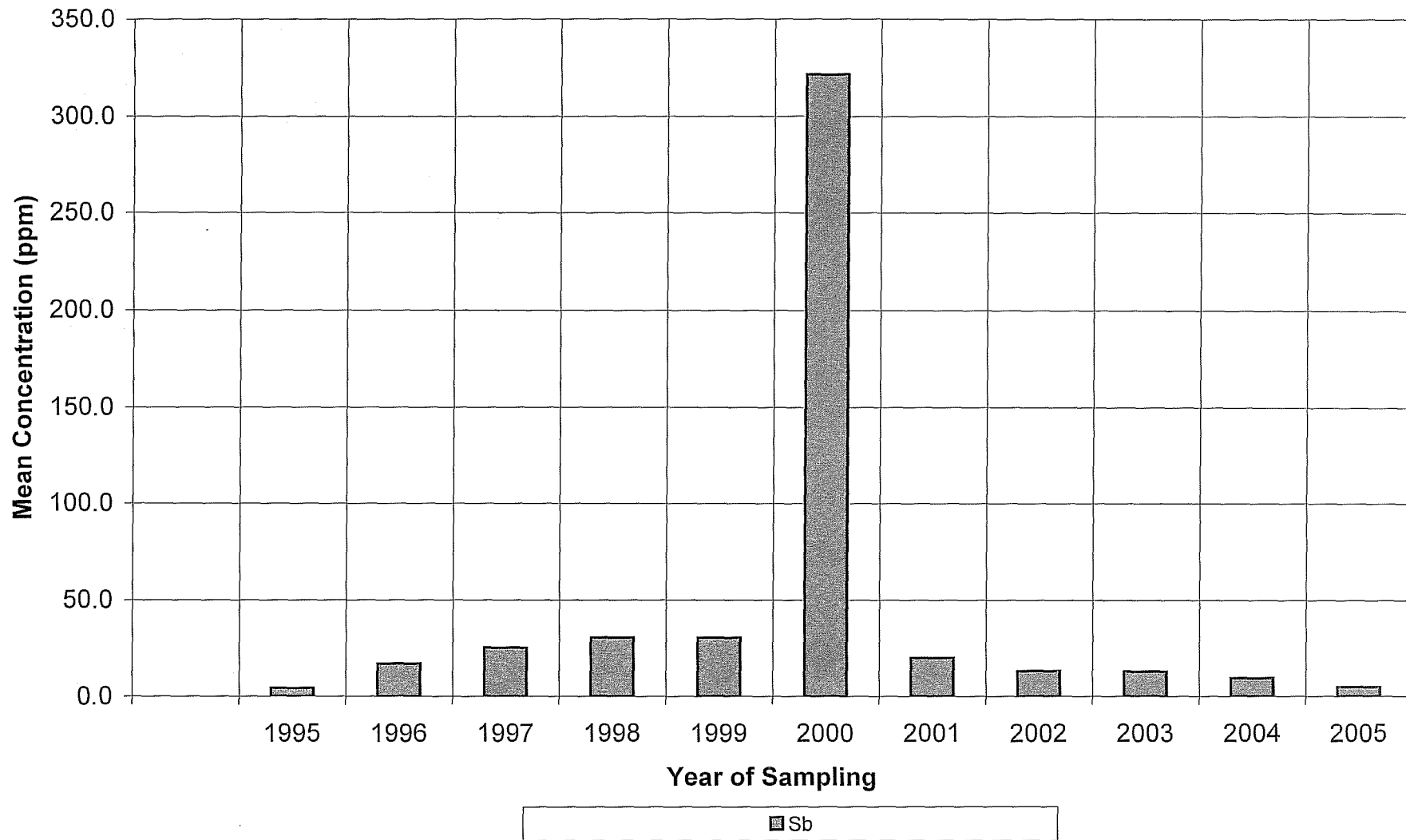
Stream Sediment Site W03
BC-32: Laura Creek Below Exploration Camp



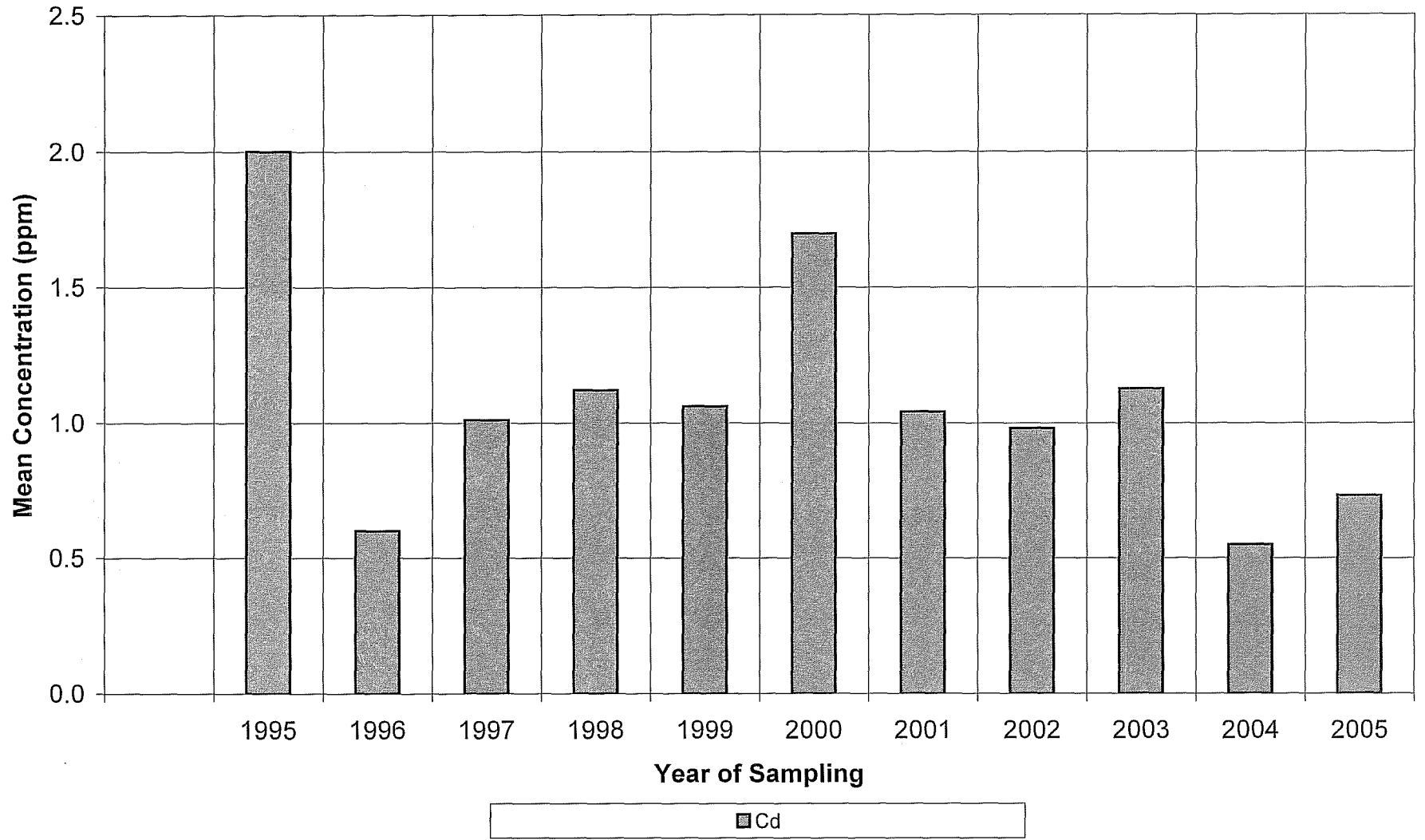
Stream Sediment Site W04B
BC-03: Laura Creek Above Carolyn Creek



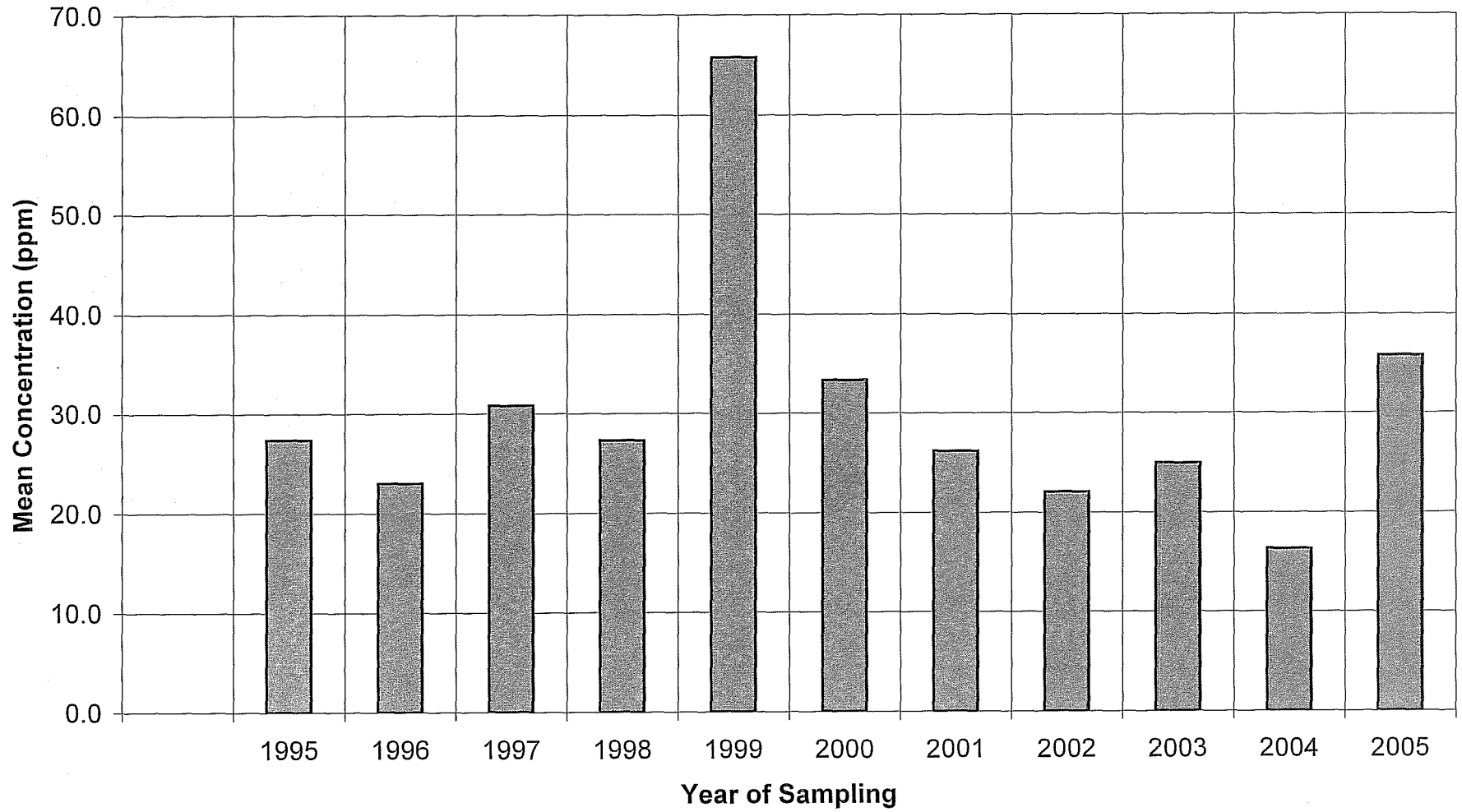
Stream Sediment Site W04B
BC-03: Laura Creek Above Carolyn Creek



Stream Sediment Site W04B
BC-03: Laura Creek Above Carolyn Creek

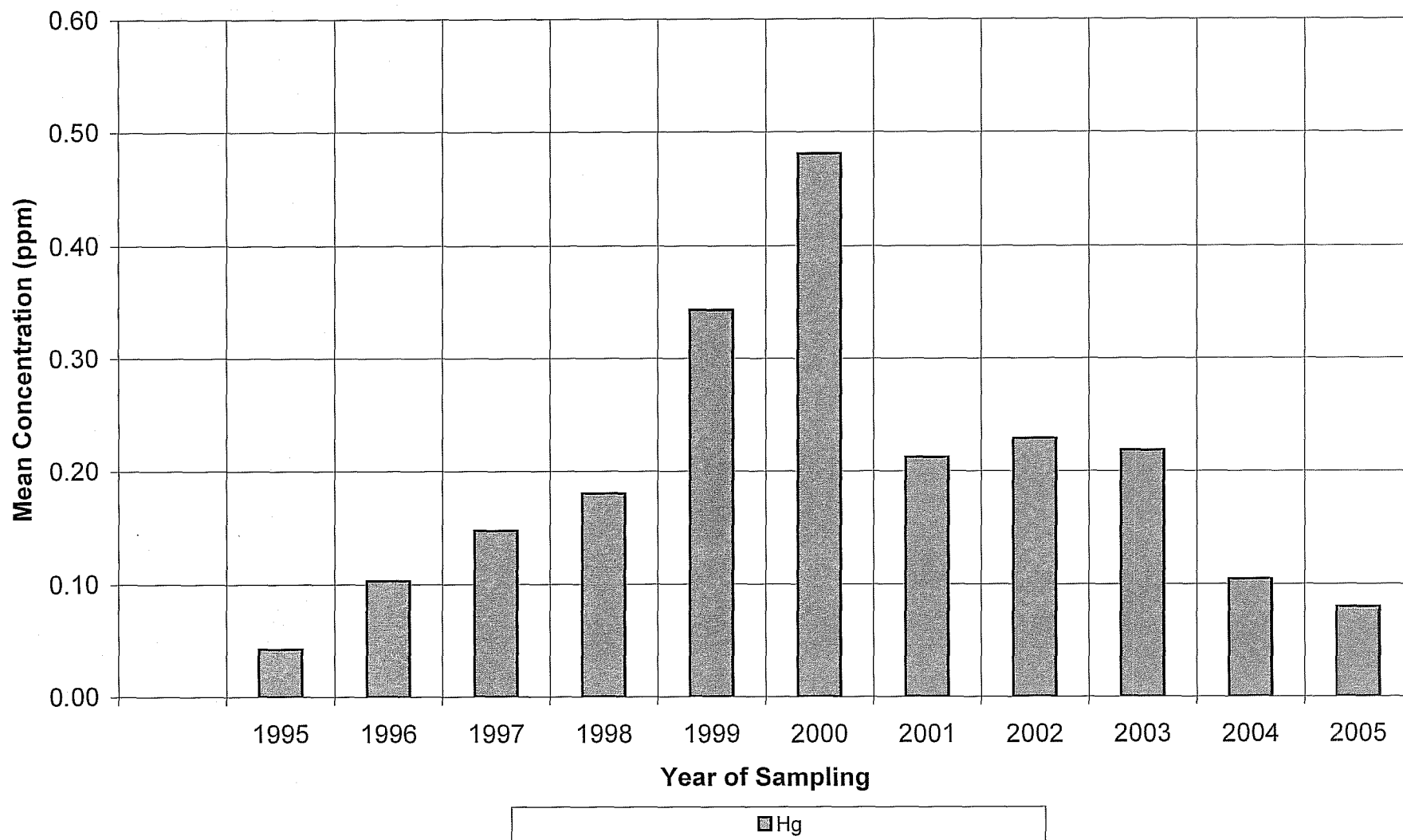


Stream Sediment Site W04B
BC-03: Laura Creek Above Carolyn Creek

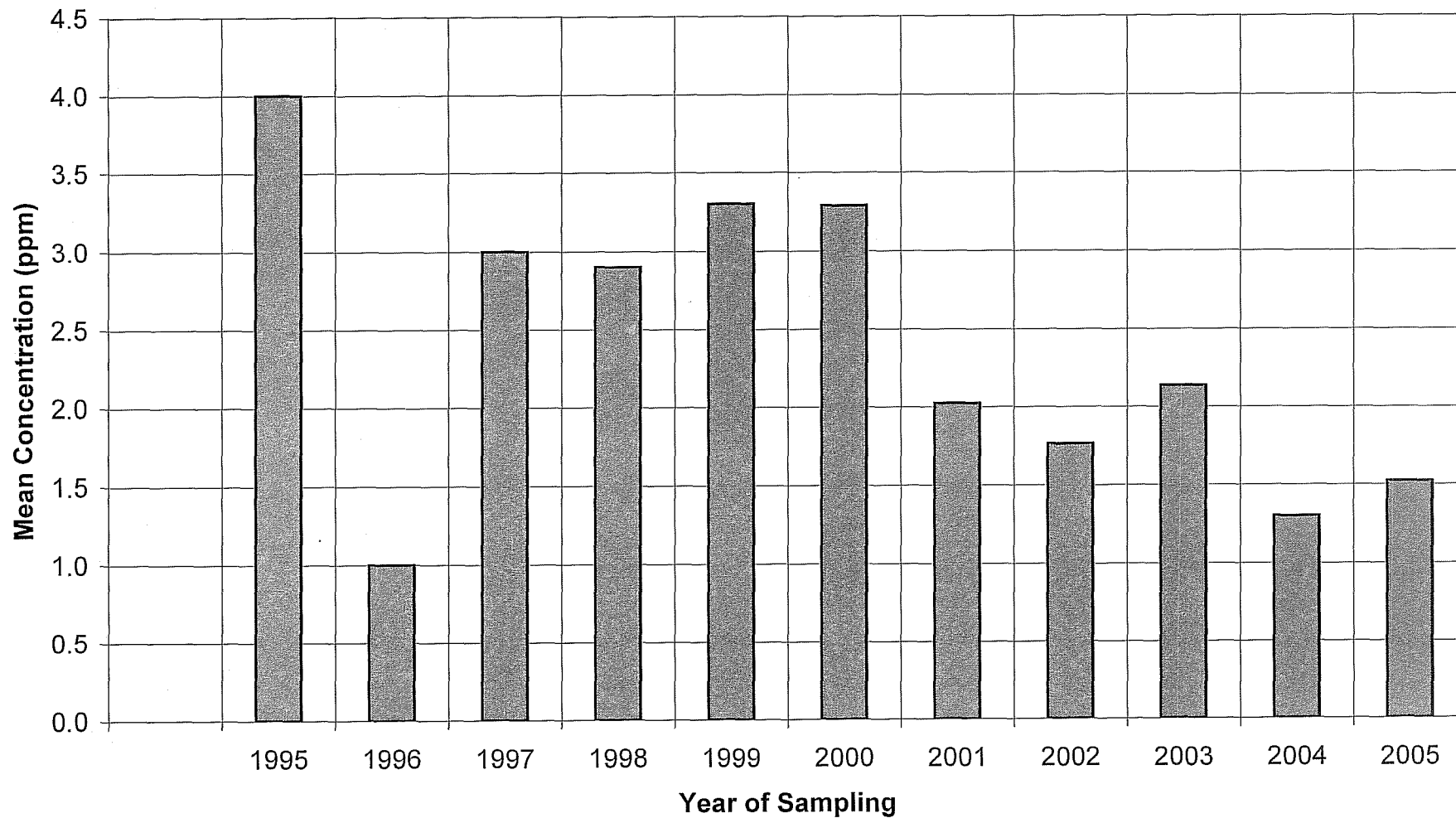


■ Cu

Stream Sediment Site W04B
BC-03: Laura Creek Above Carolyn Creek

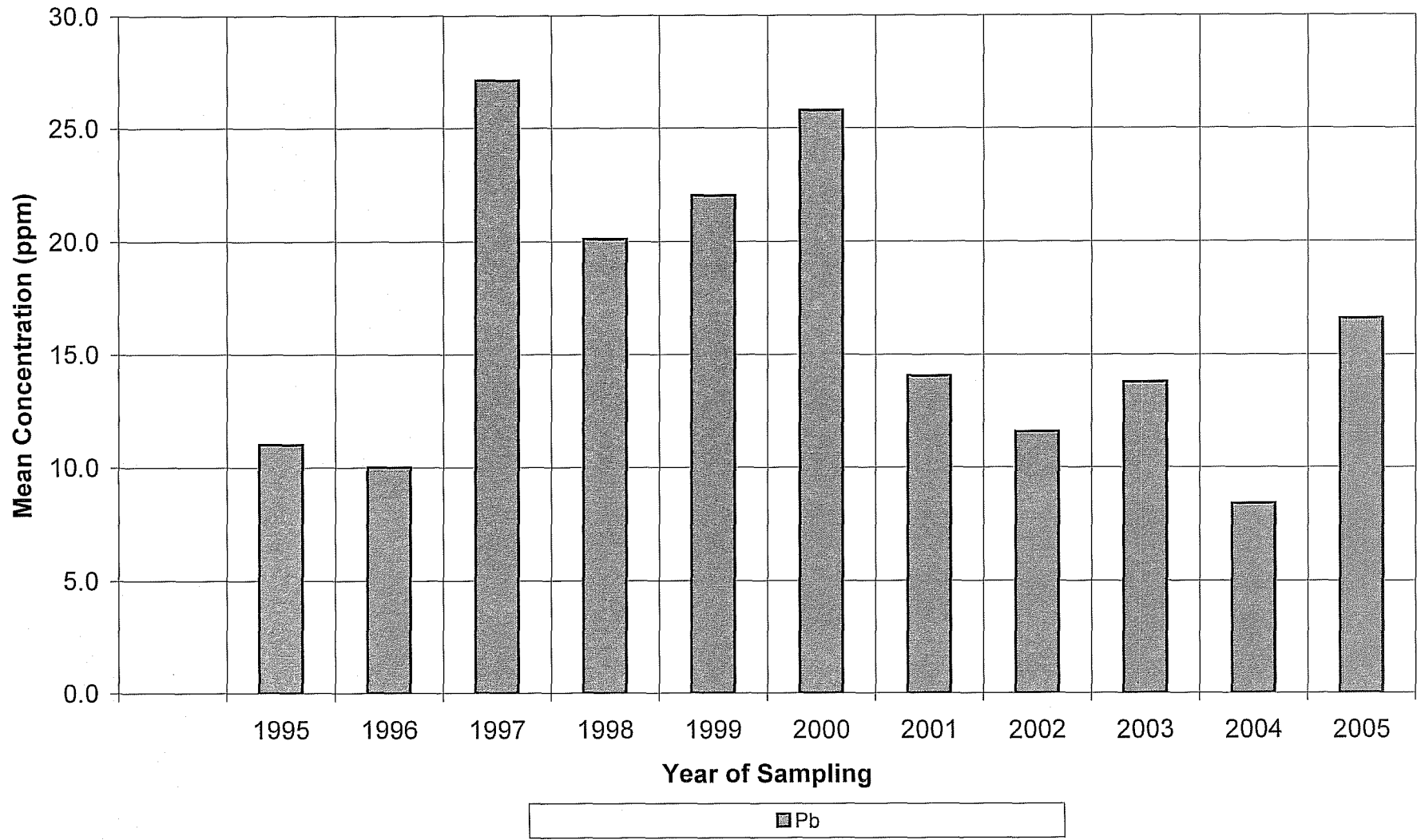


Stream Sediment Site W04B
BC-03: Laura Creek Above Carolyn Creek

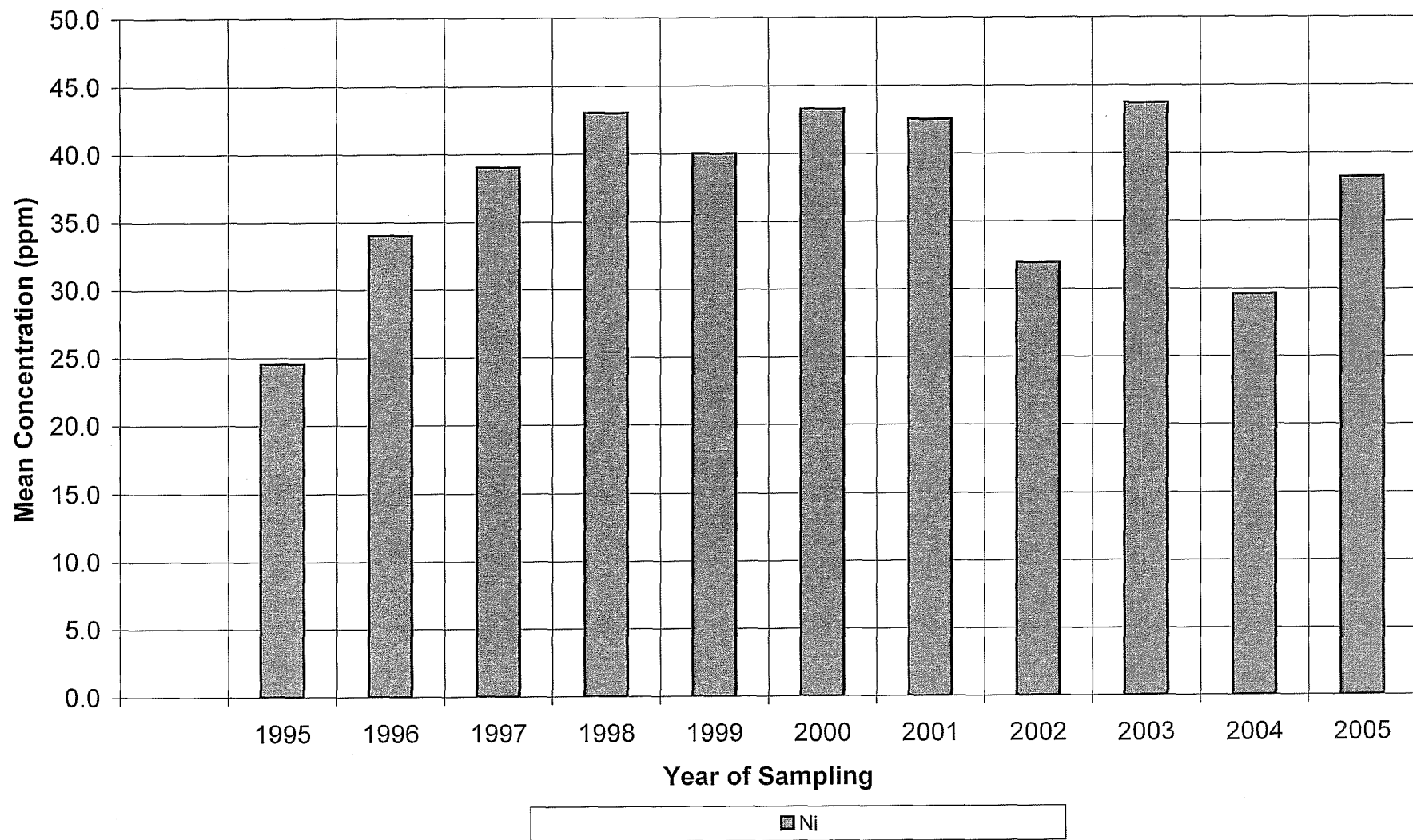


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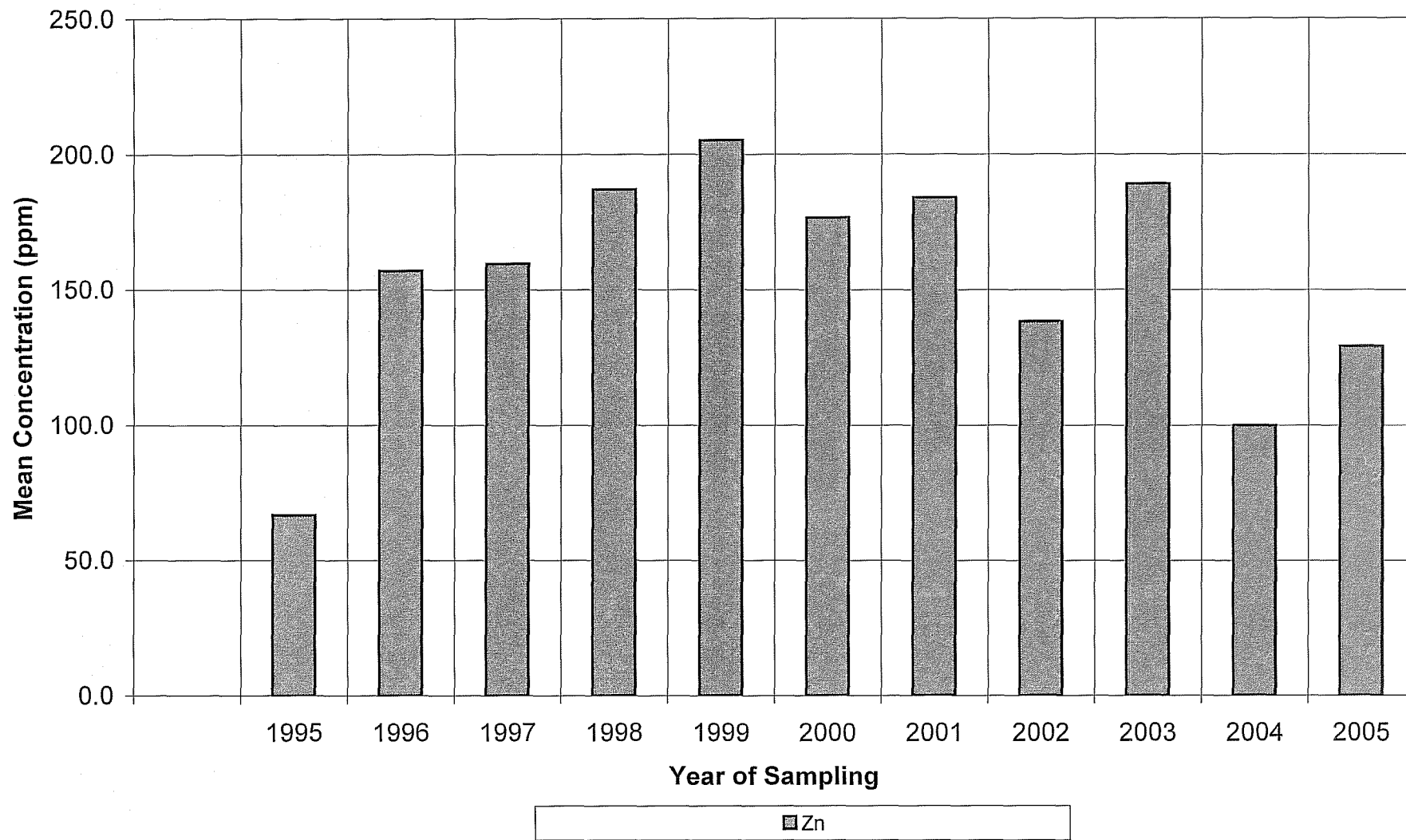
Stream Sediment Site W04B
BC-03: Laura Creek Above Carolyn Creek



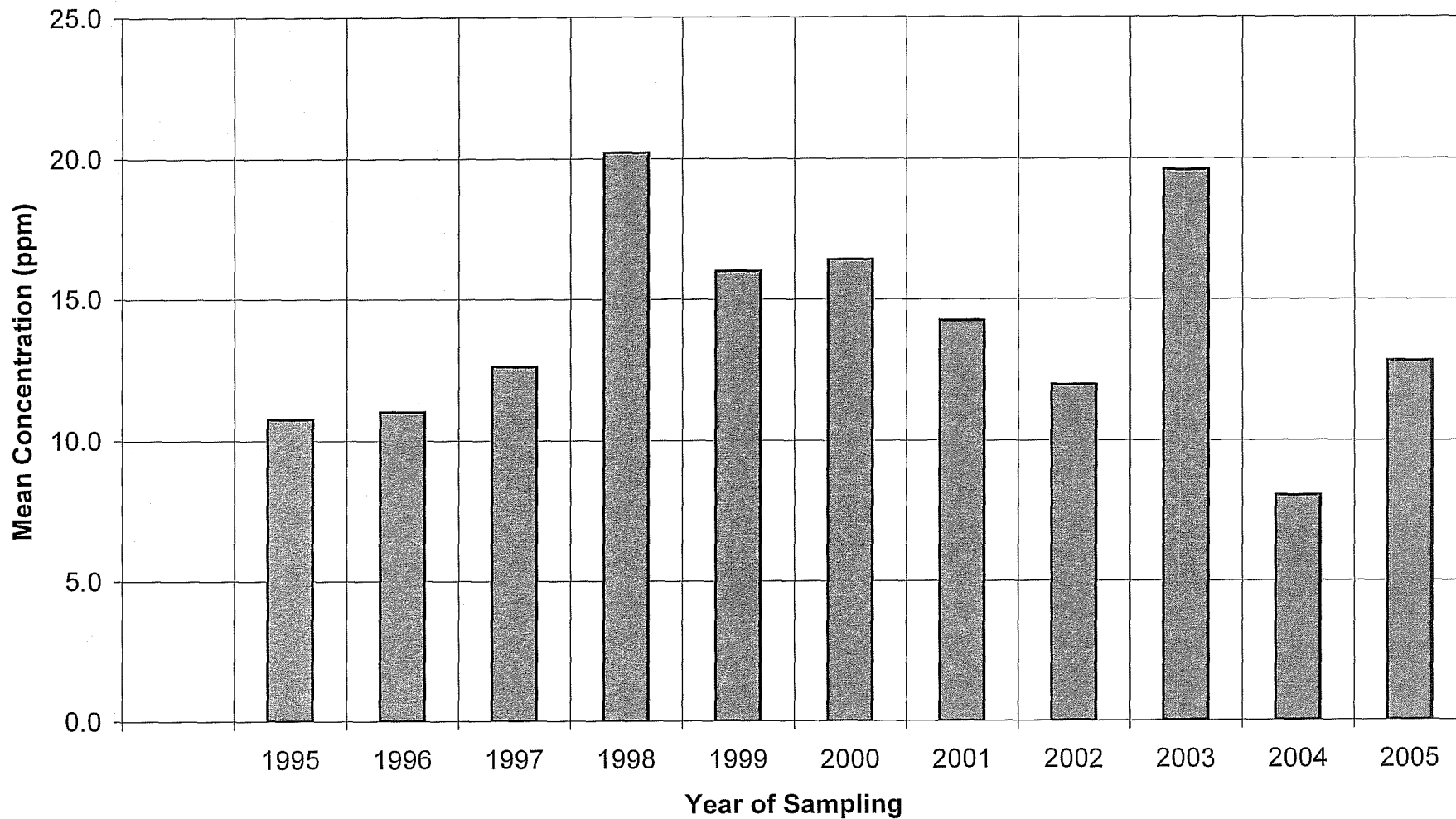
Stream Sediment Site W04B
BC-03: Laura Creek Above Carolyn Creek



Stream Sediment Site W04B
BC-03: Laura Creek Above Carolyn Creek

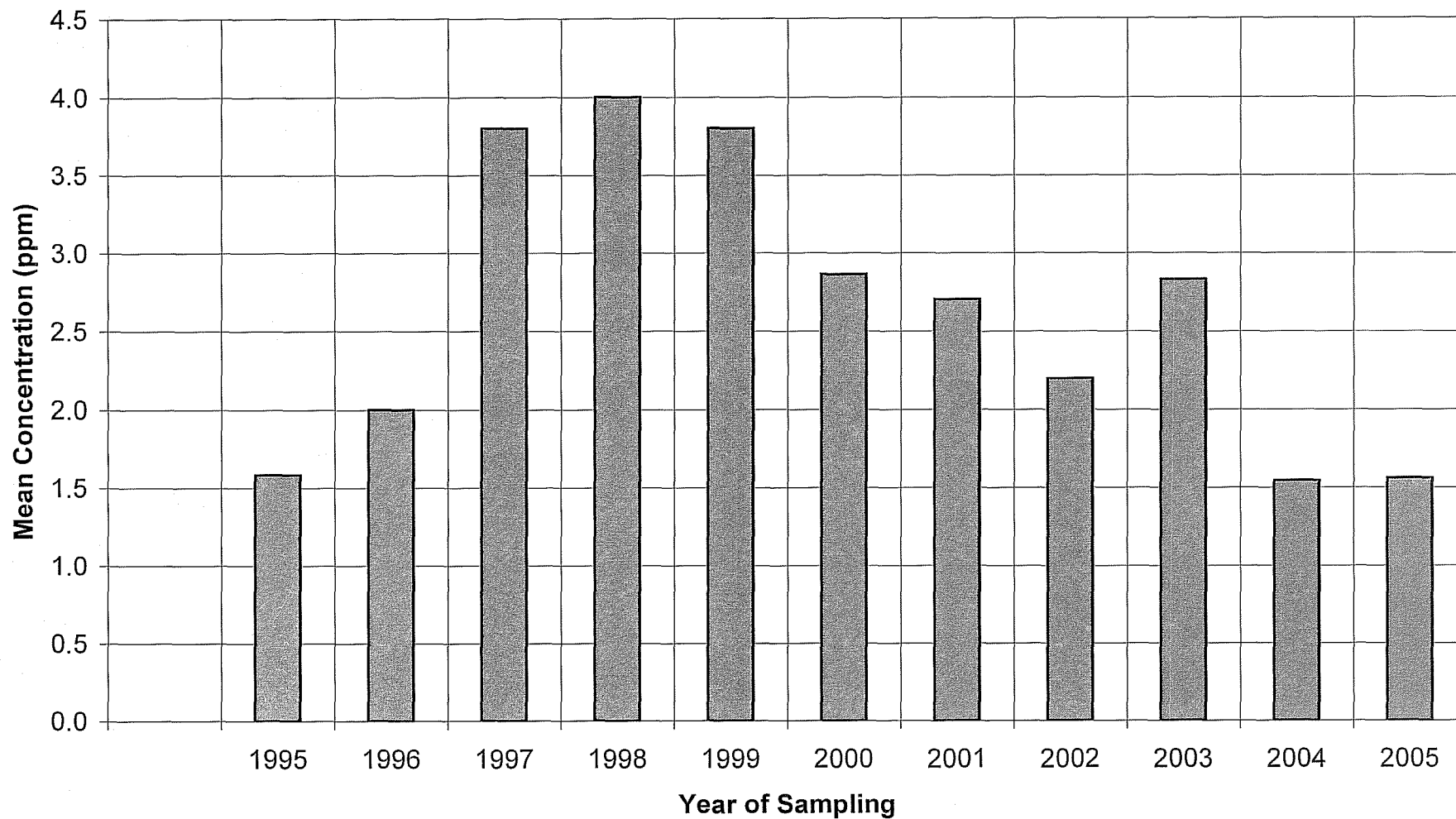


Stream Sediment Site W15
BC-02: Carolyn Creek upstream from Laura Creek



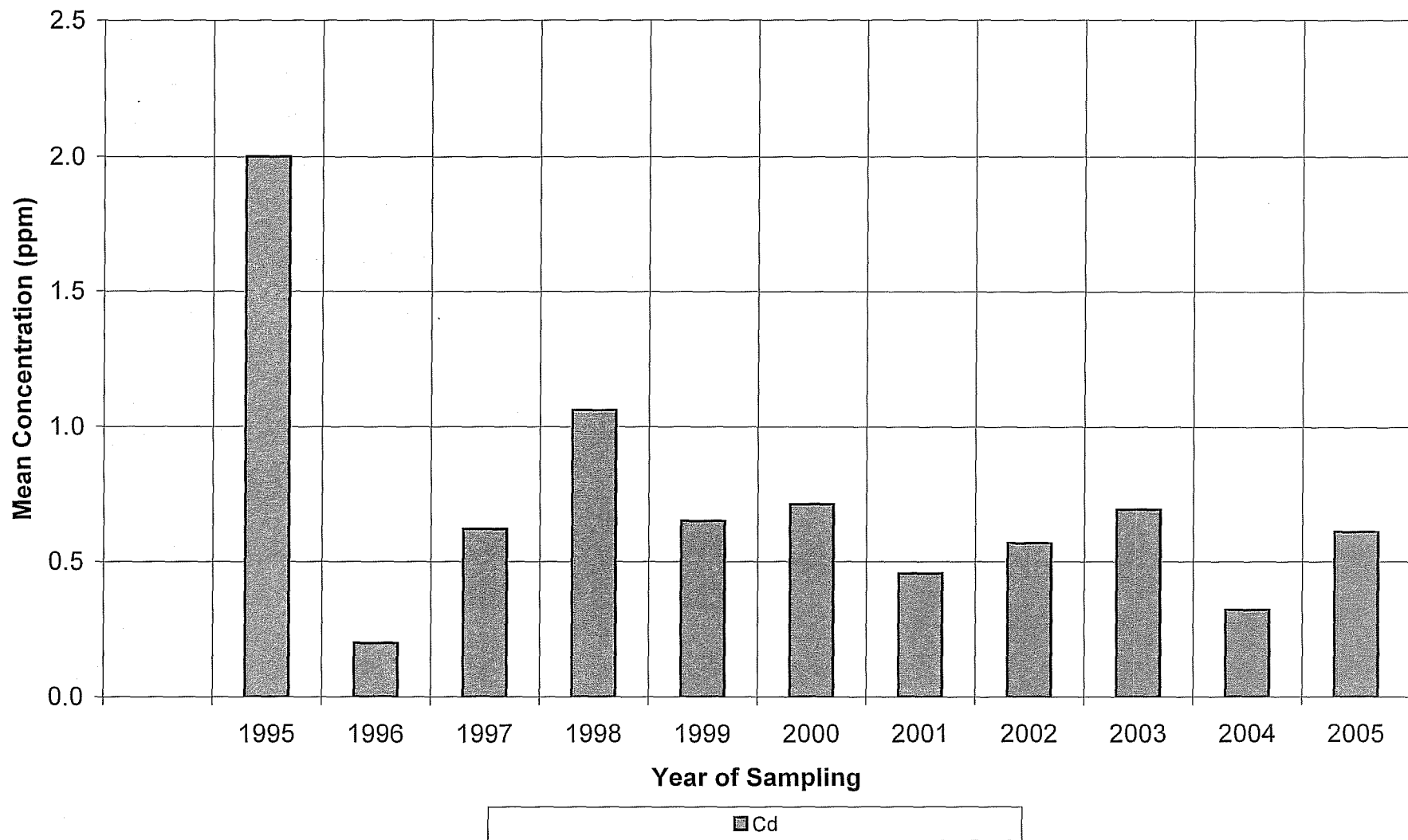
■ As

Stream Sediment Site W15
BC-02: Carolyn Creek upstream from Laura Creek

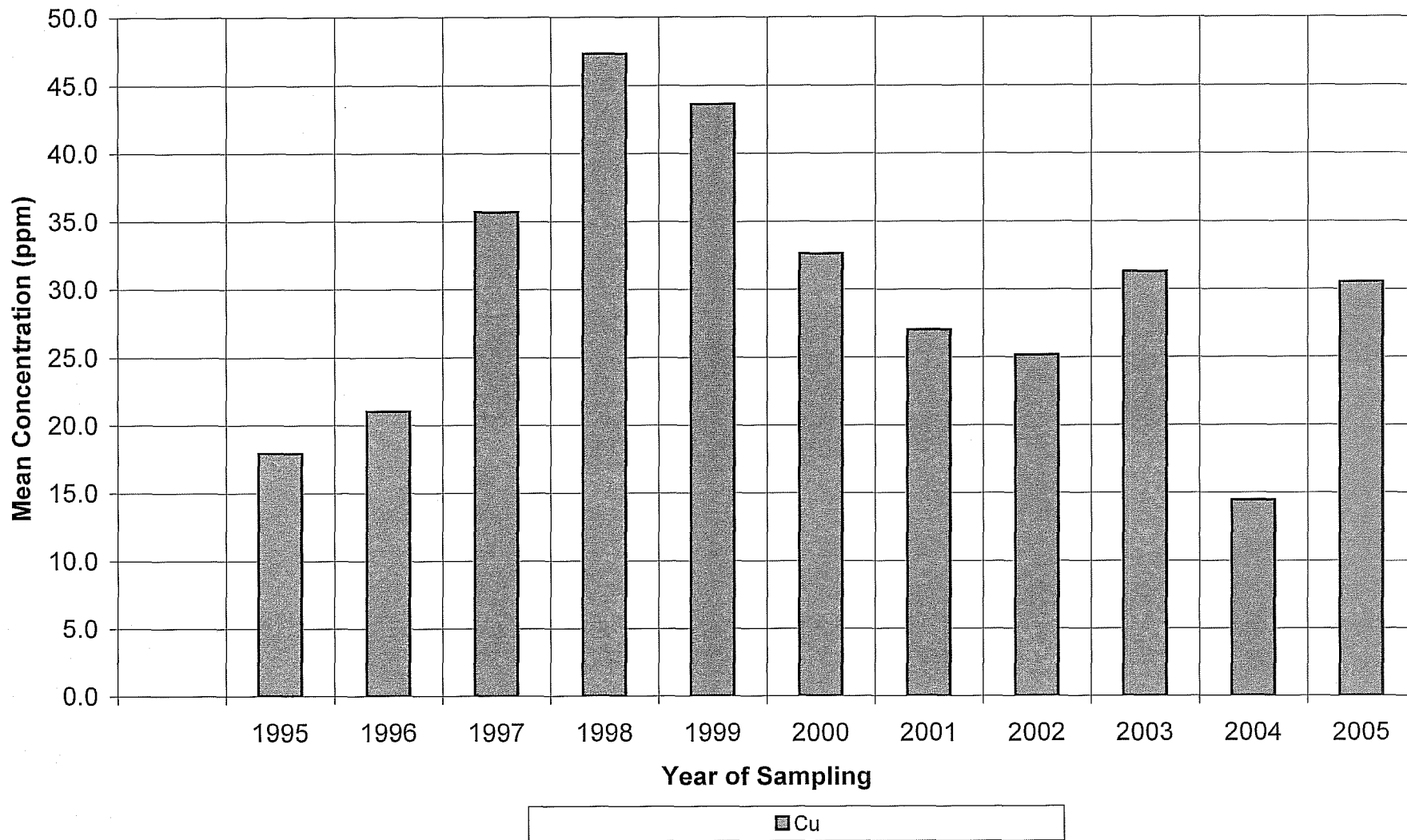


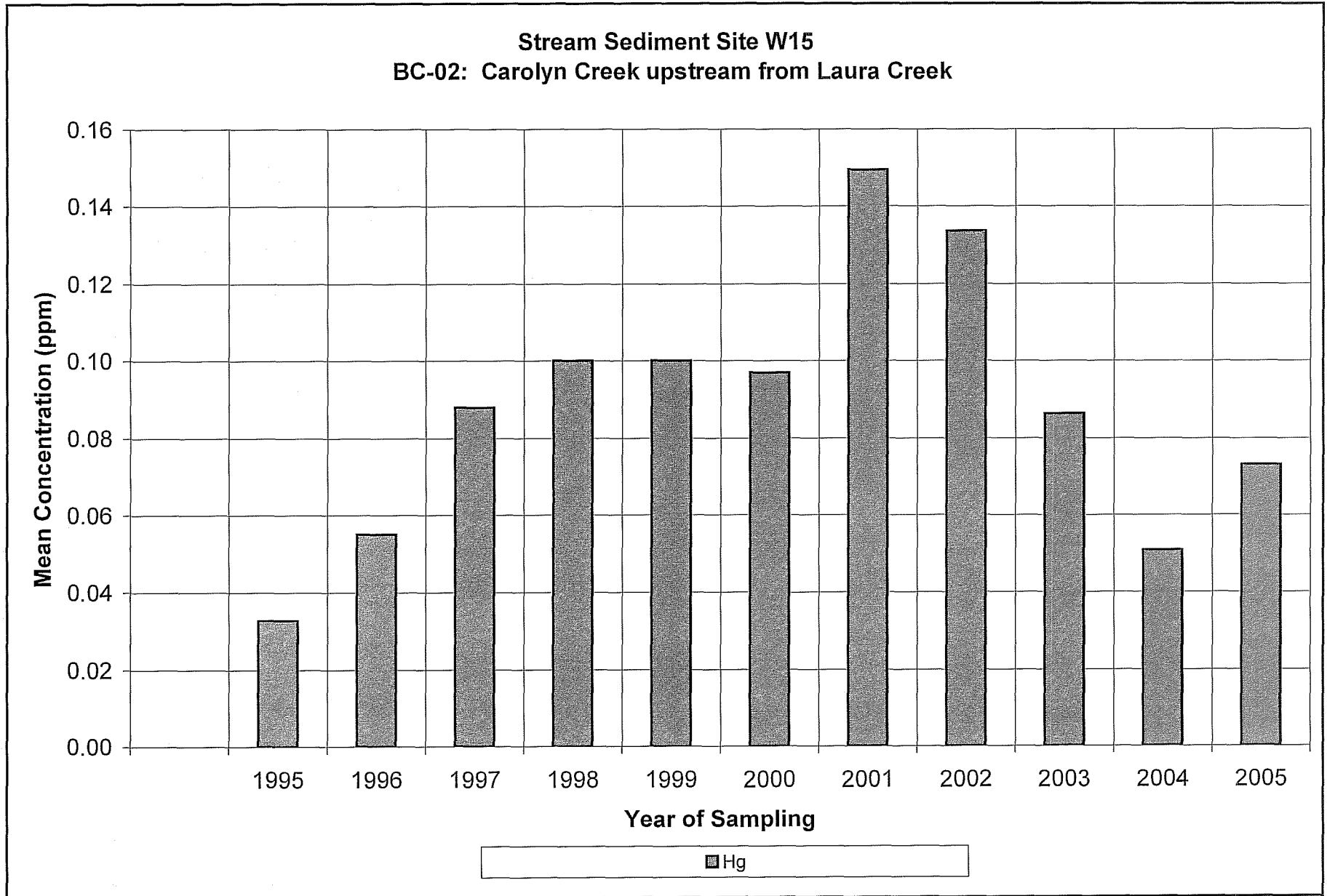
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Stream Sediment Site W15
BC-02: Carolyn Creek upstream from Laura Creek

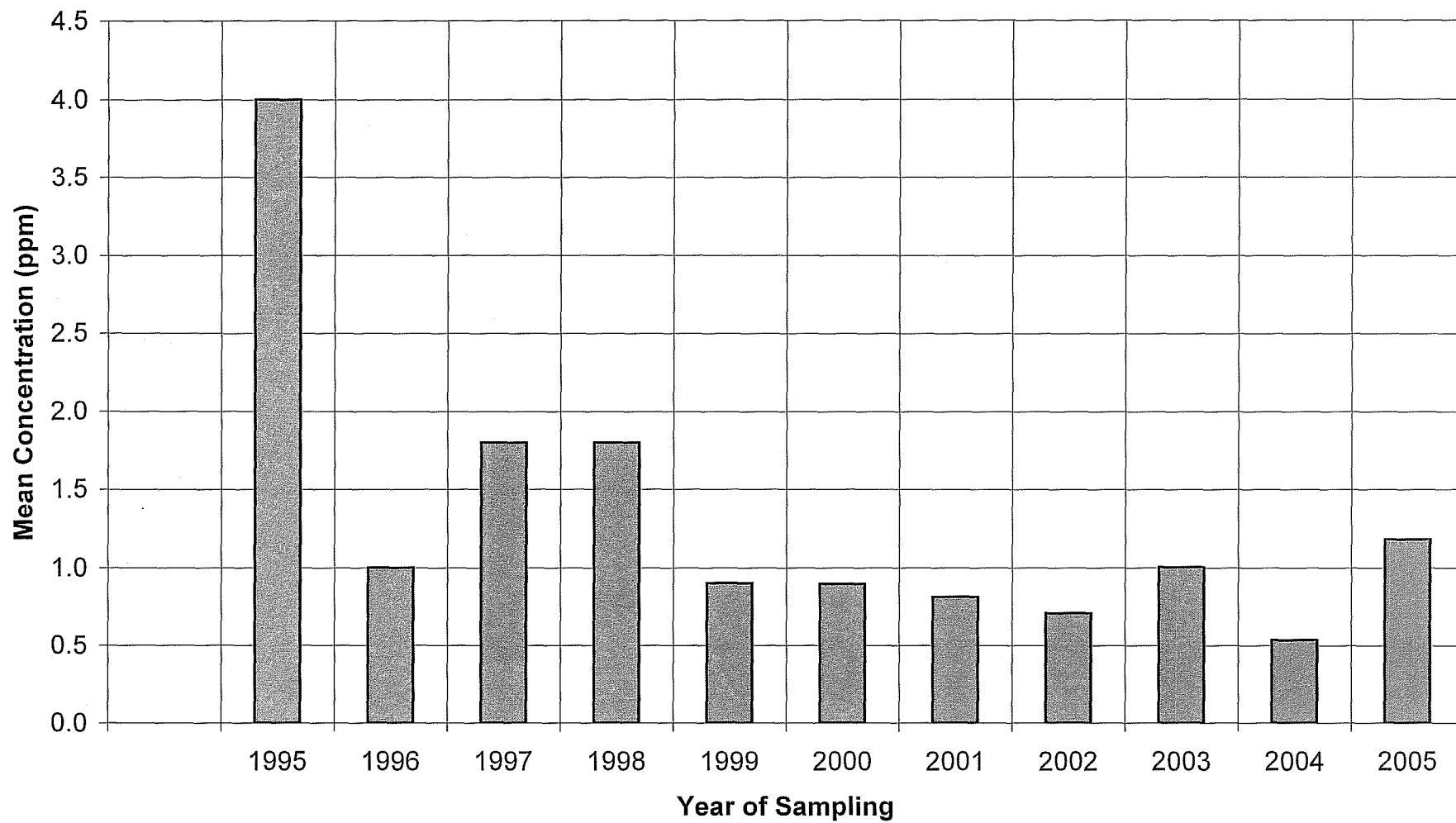


Stream Sediment Site W15
BC-02: Carolyn Creek upstream from Laura Creek



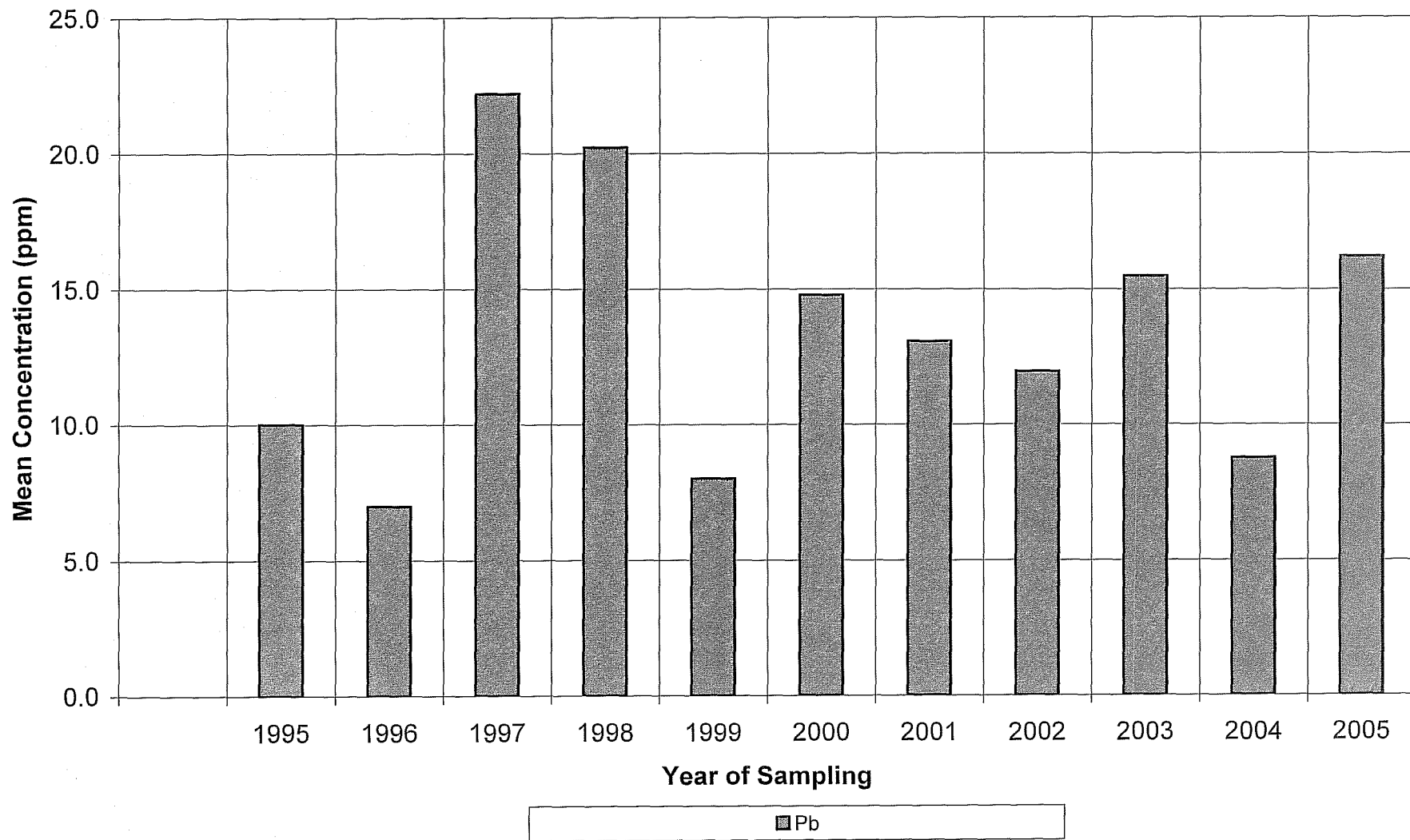


Stream Sediment Site W15
BC-02: Carolyn Creek upstream from Laura Creek

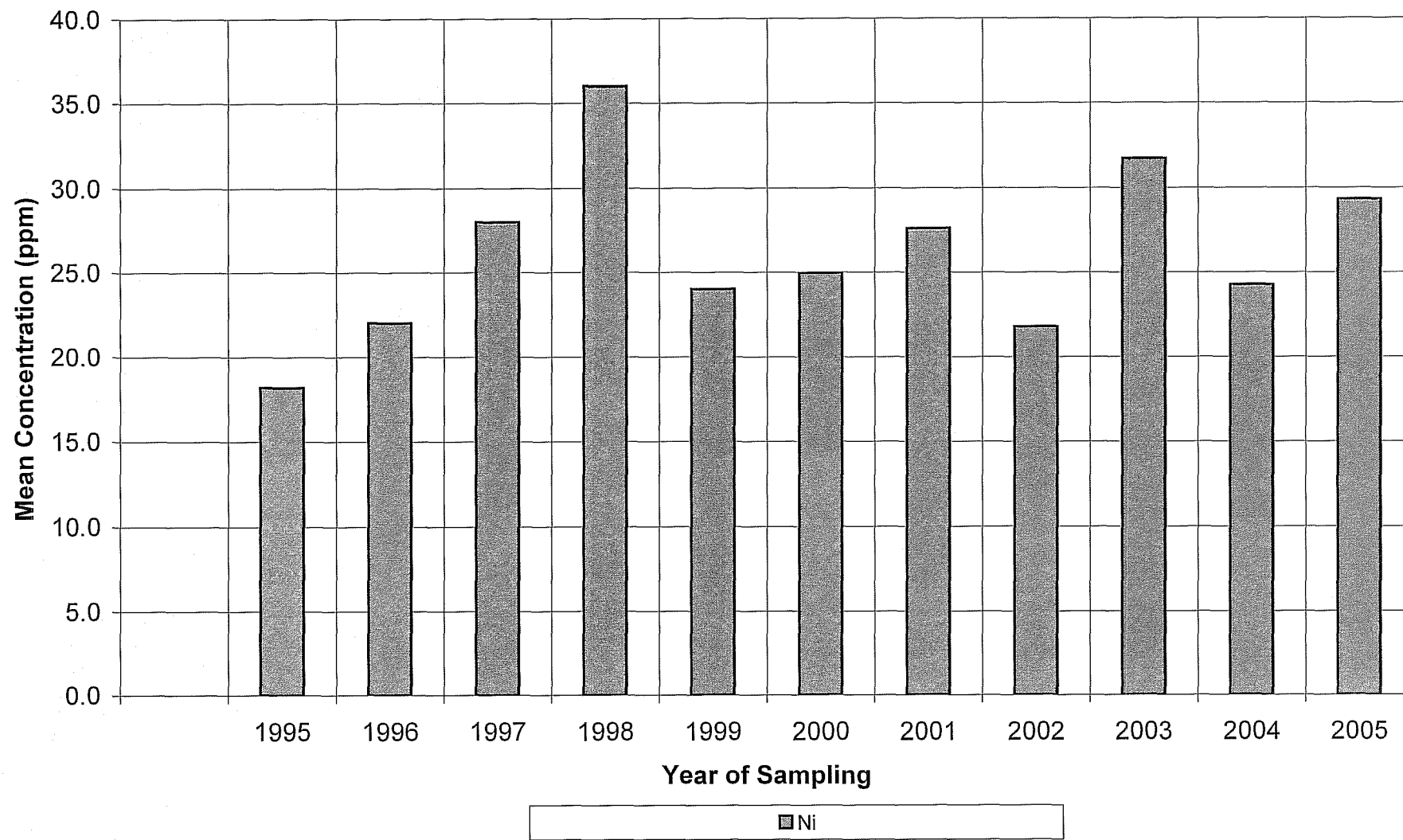


Mo

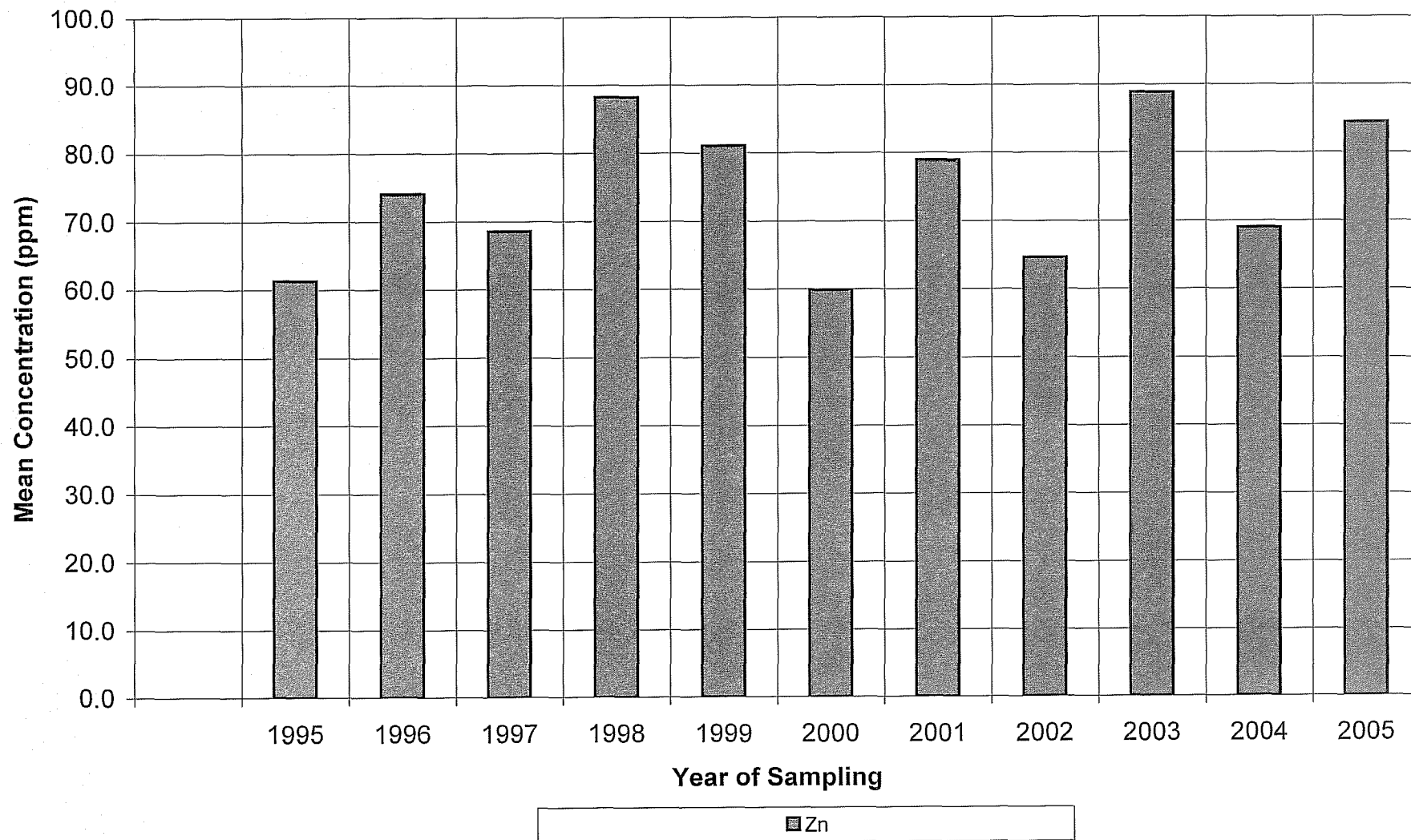
Stream Sediment Site W15
BC-02: Carolyn Creek upstream from Laura Creek



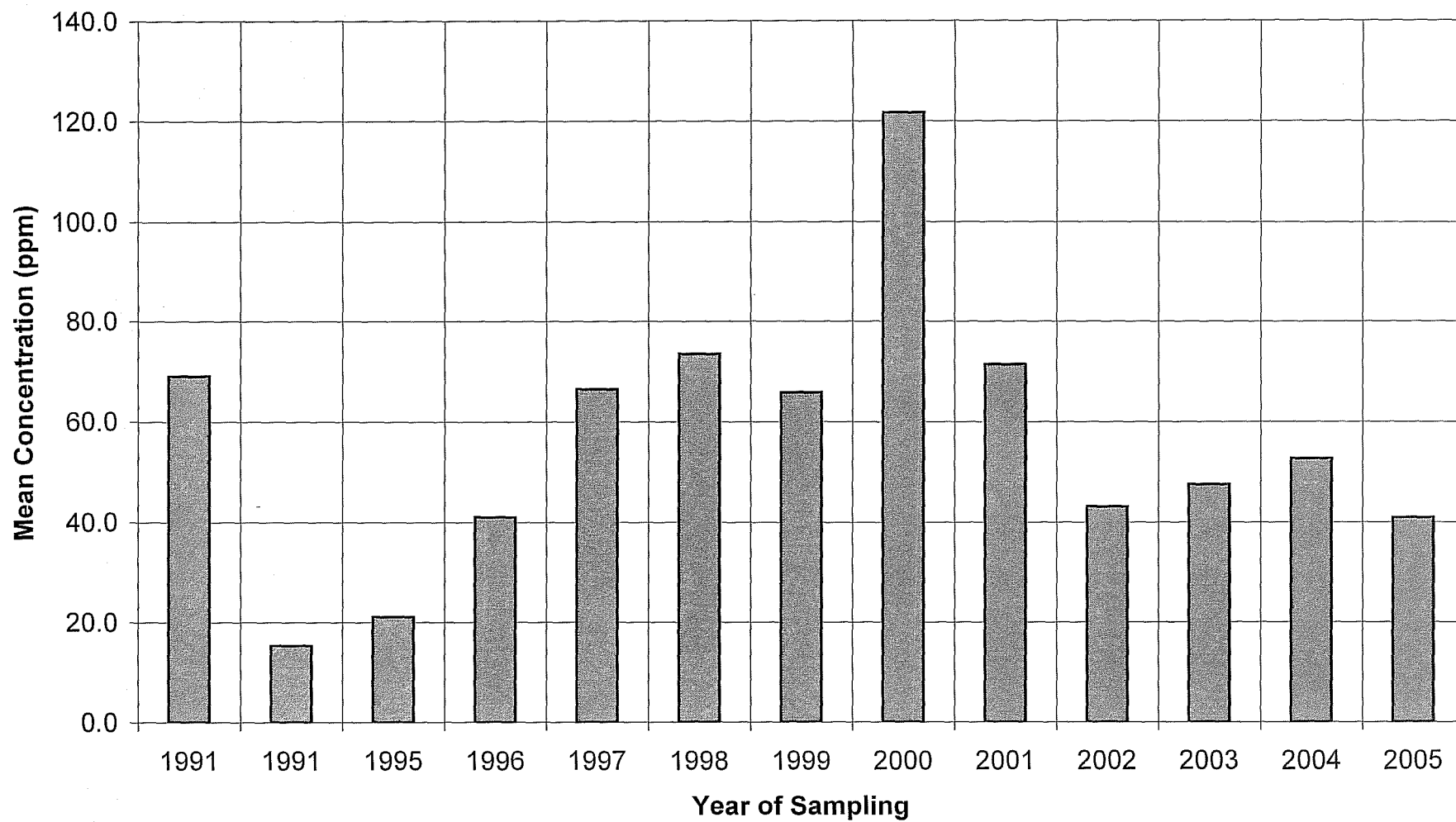
Stream Sediment Site W15
BC-02: Carolyn Creek upstream from Laura Creek



Stream Sediment Site W15
BC-02: Carolyn Creek upstream from Laura Creek

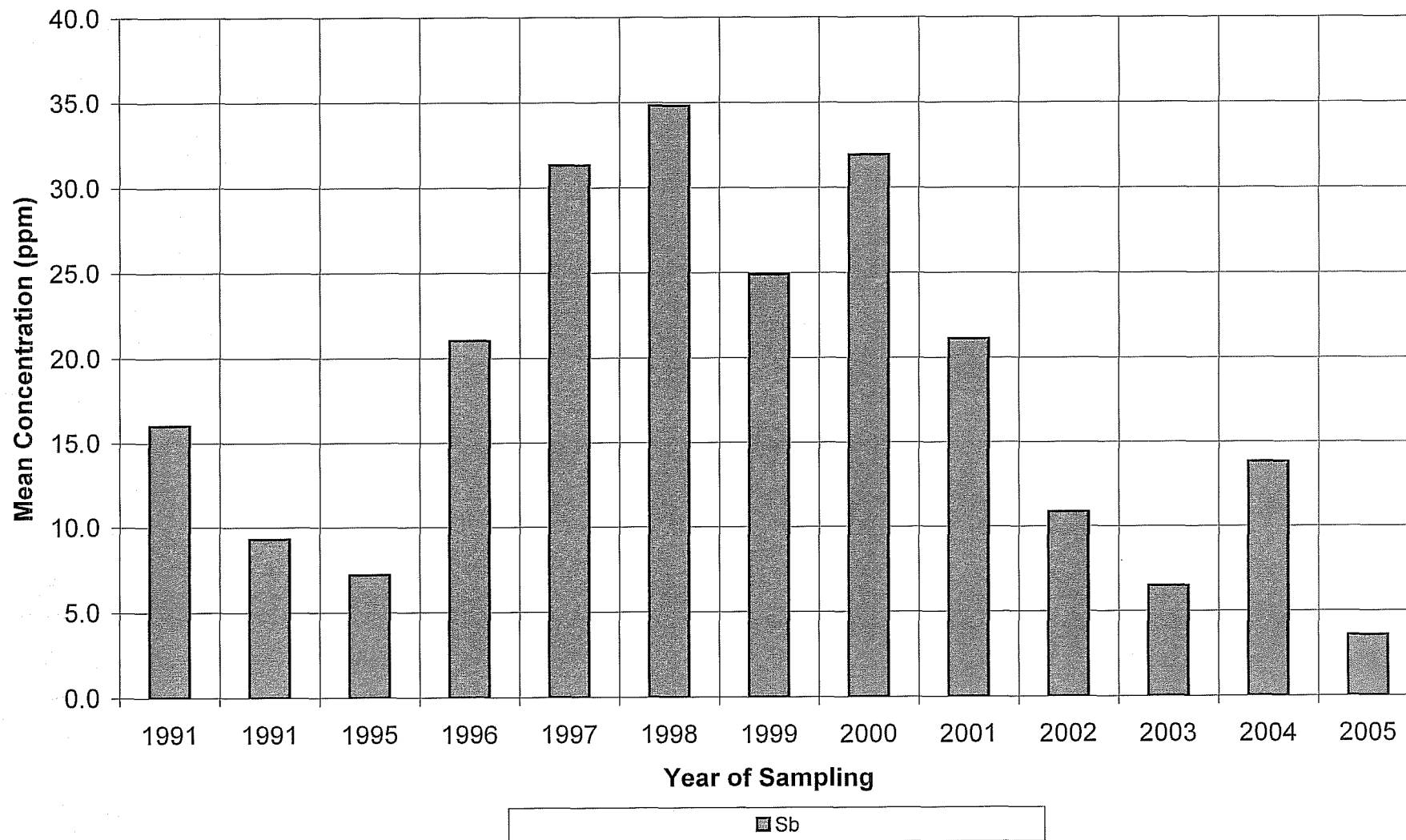


Stream Sediment Site W05
BC-1: Laura Creek 50m above the Ditch Road

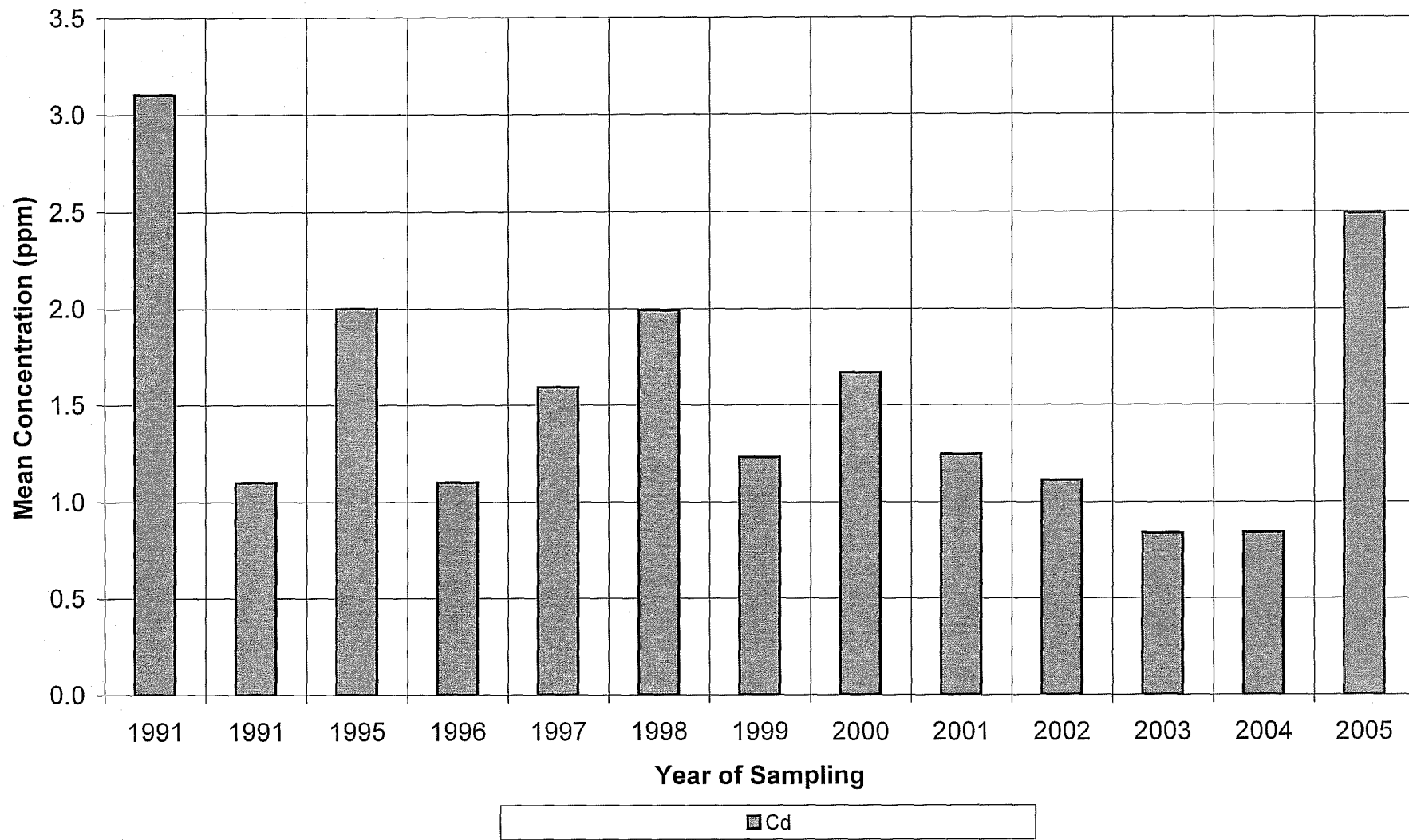


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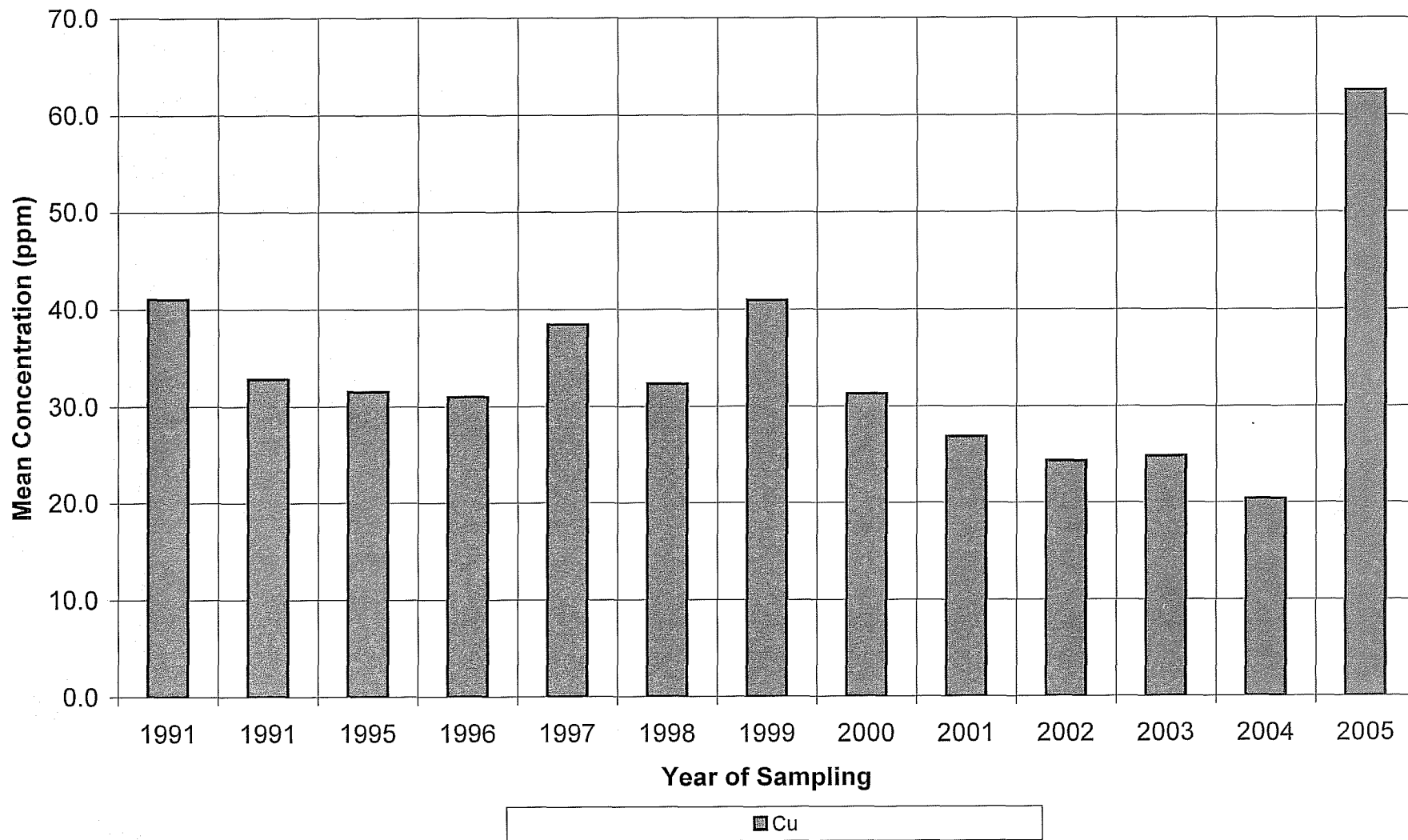
Stream Sediment Site W05
BC-1: Laura Creek 50m above the Ditch Road



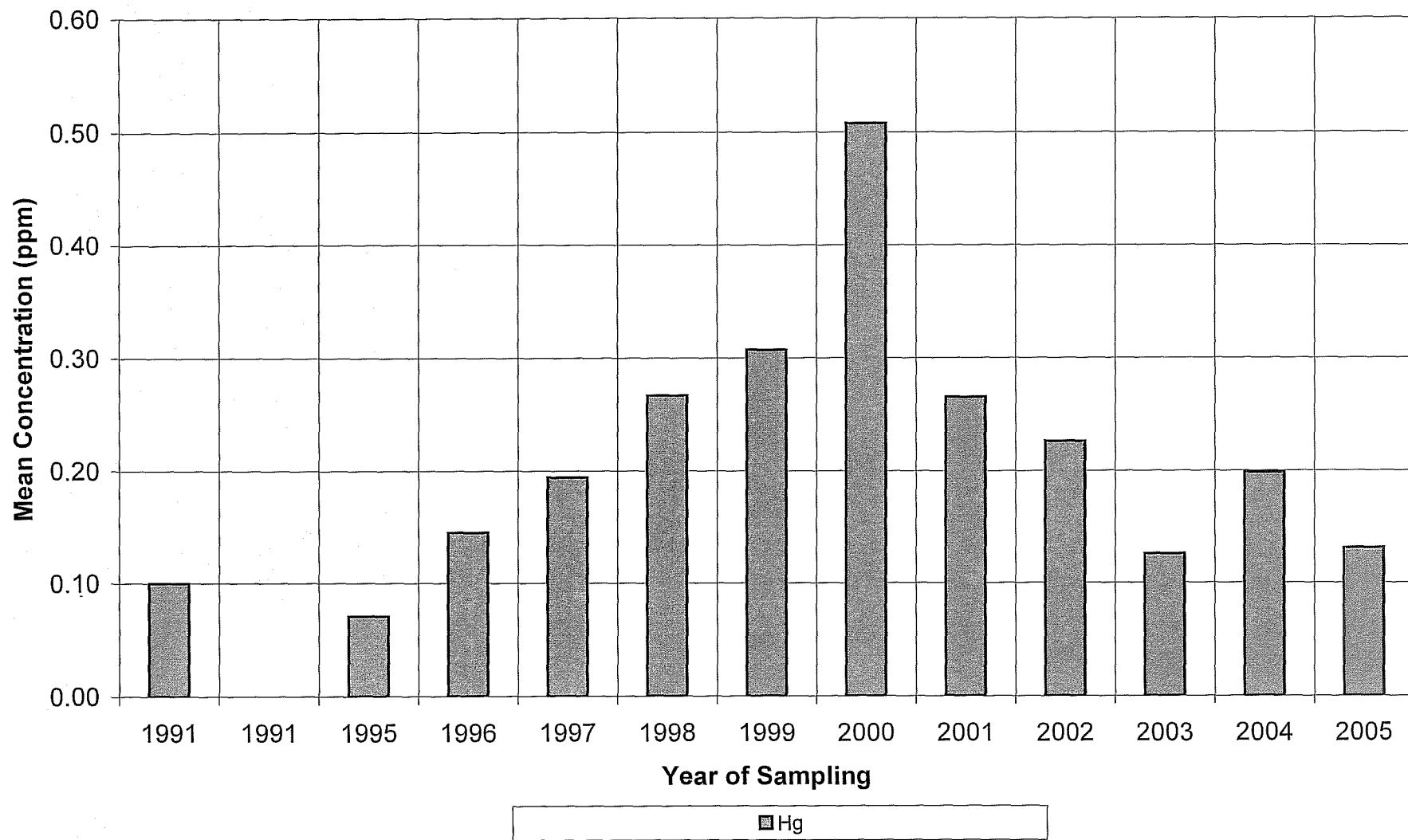
Stream Sediment Site W05
BC-1: Laura Creek 50m above the Ditch Road



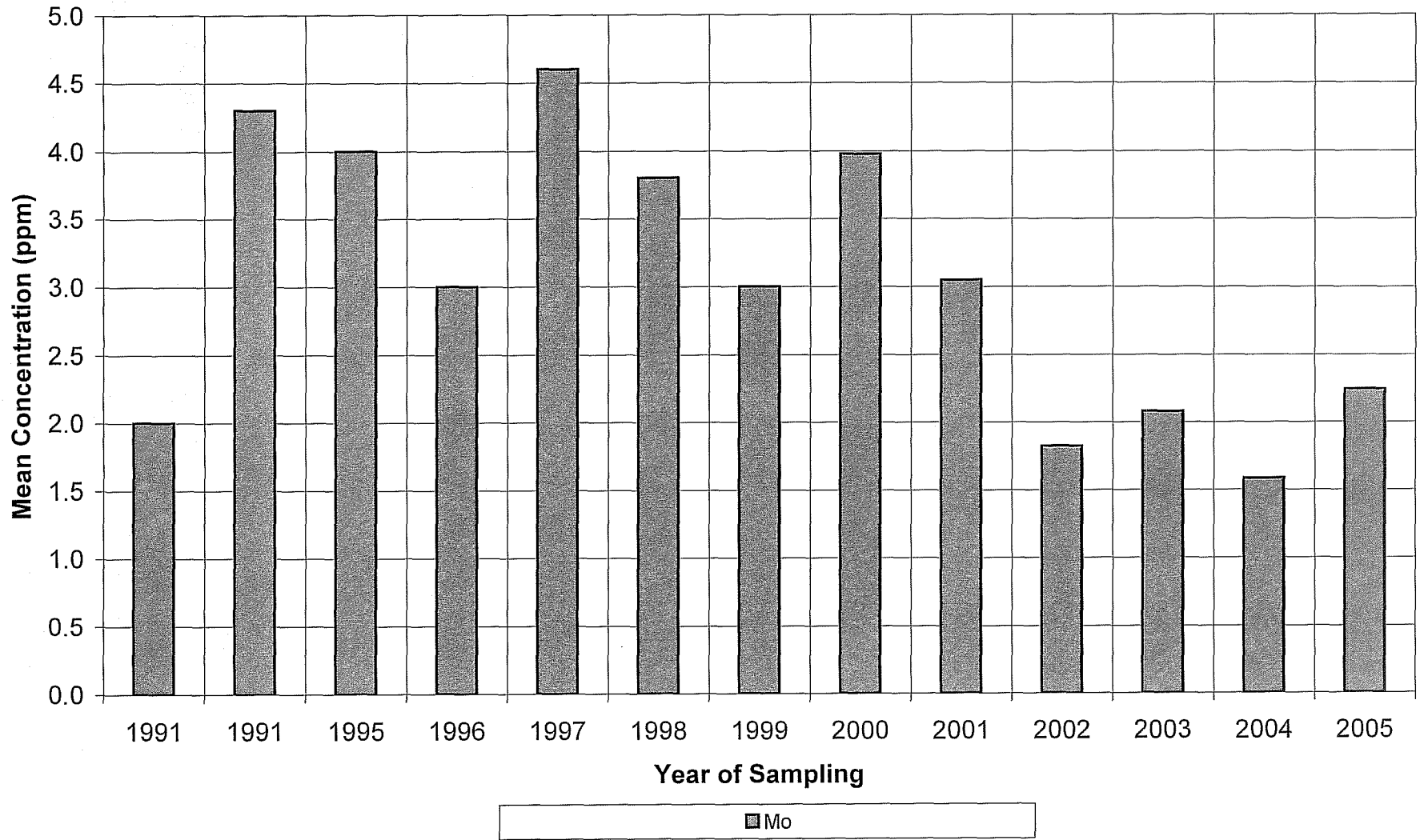
Stream Sediment Site W05
BC-1: Laura Creek 50m above the Ditch Road

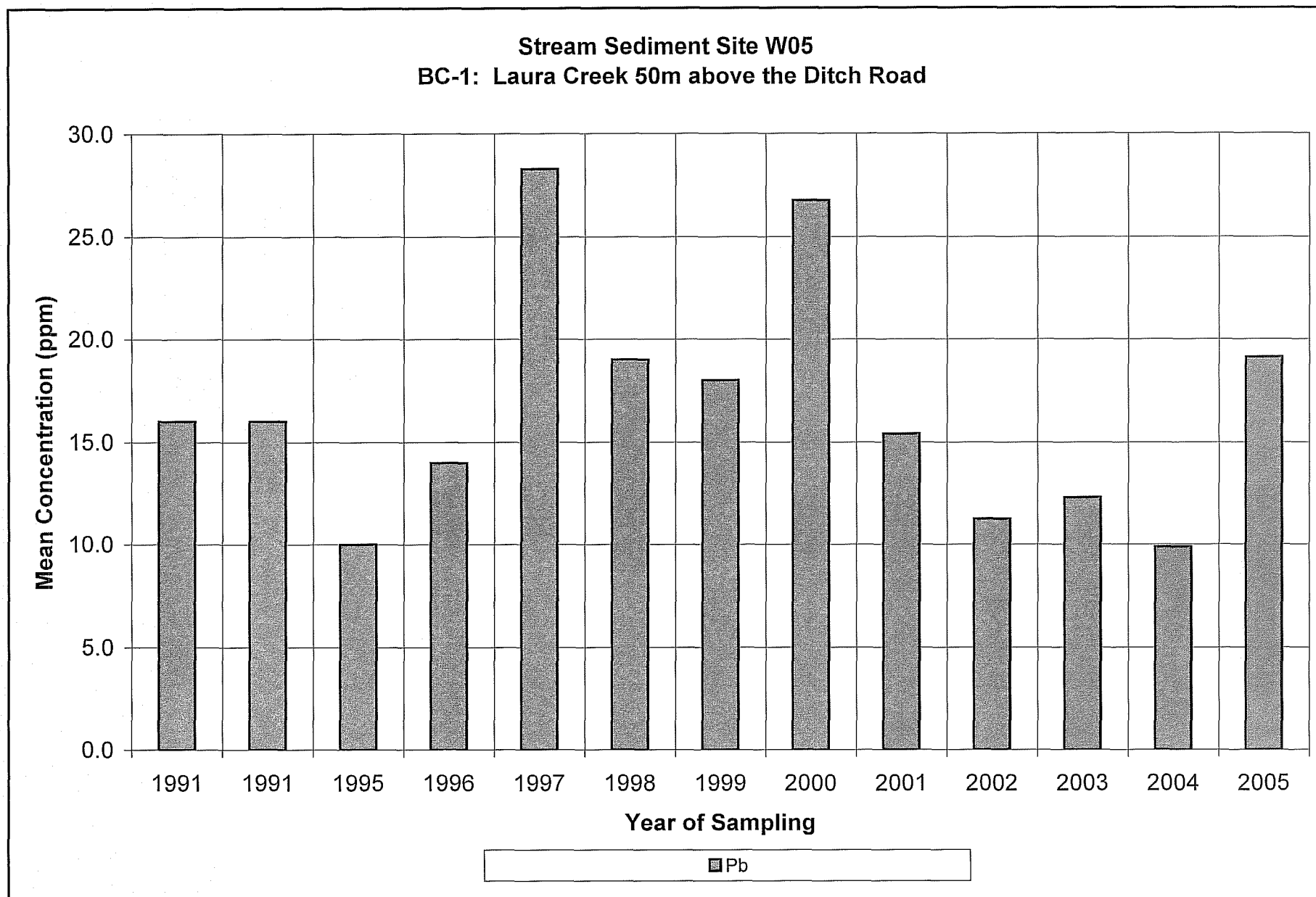


Stream Sediment Site W05
BC-1: Laura Creek 50m above the Ditch Road

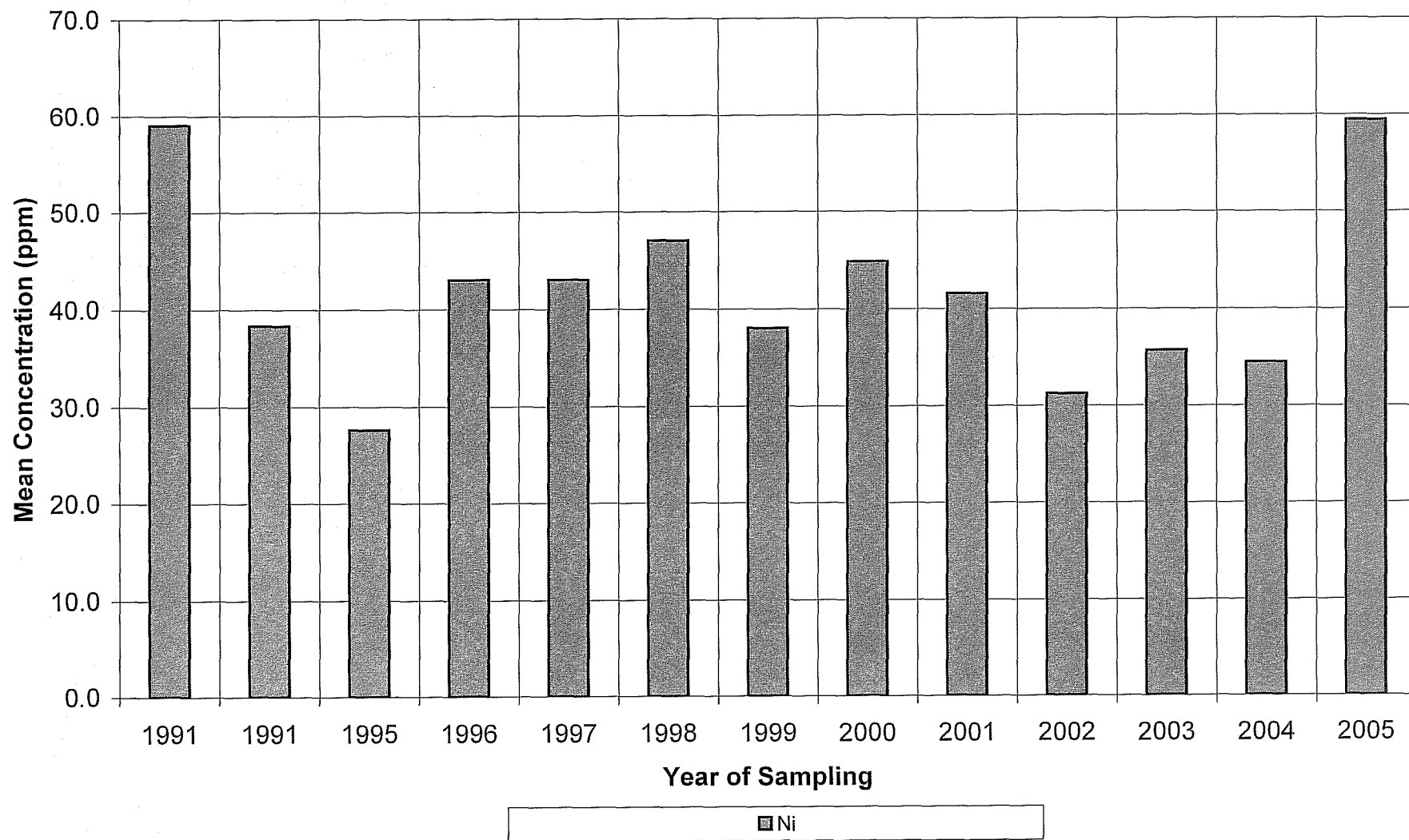


Stream Sediment Site W05
BC-1: Laura Creek 50m above the Ditch Road

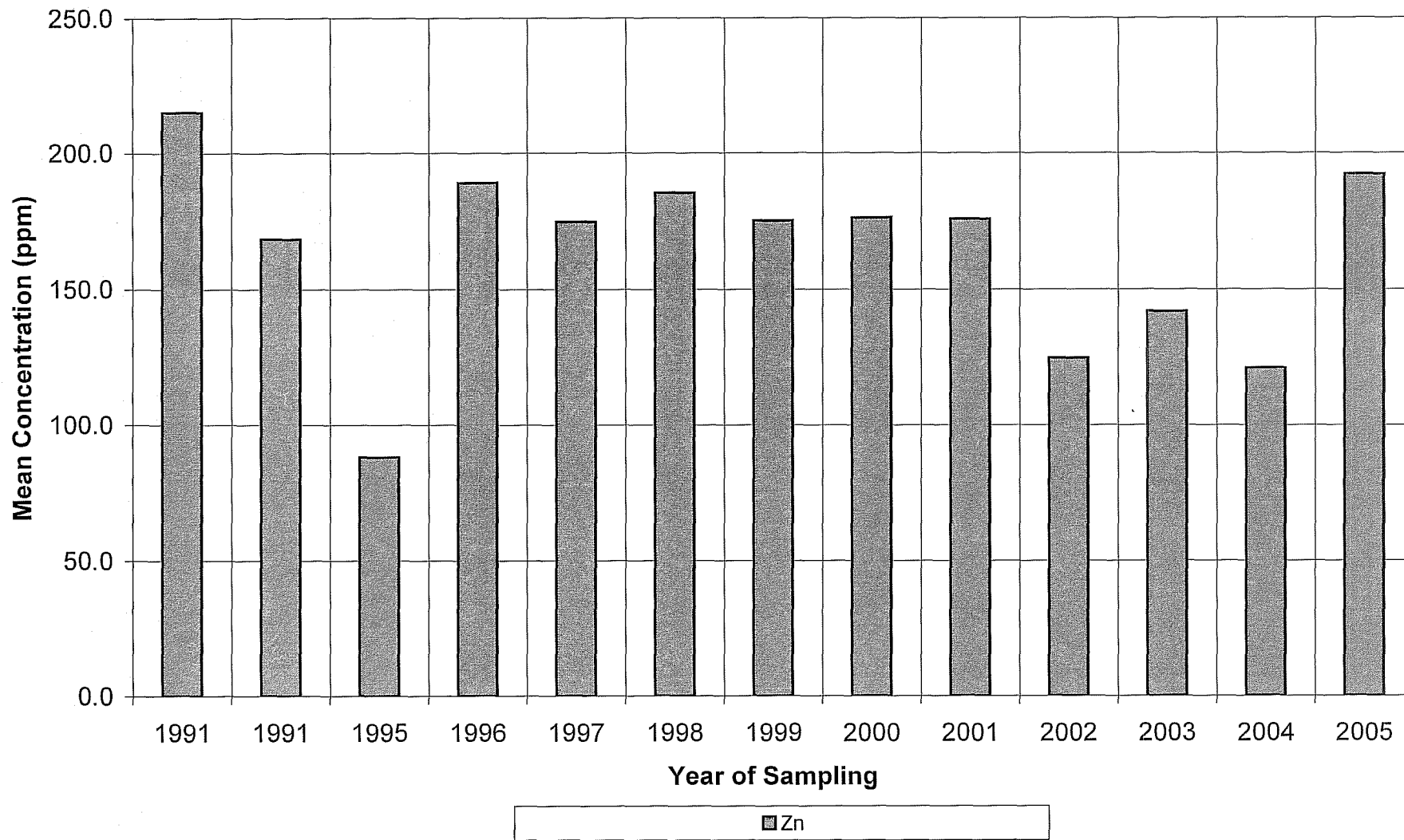


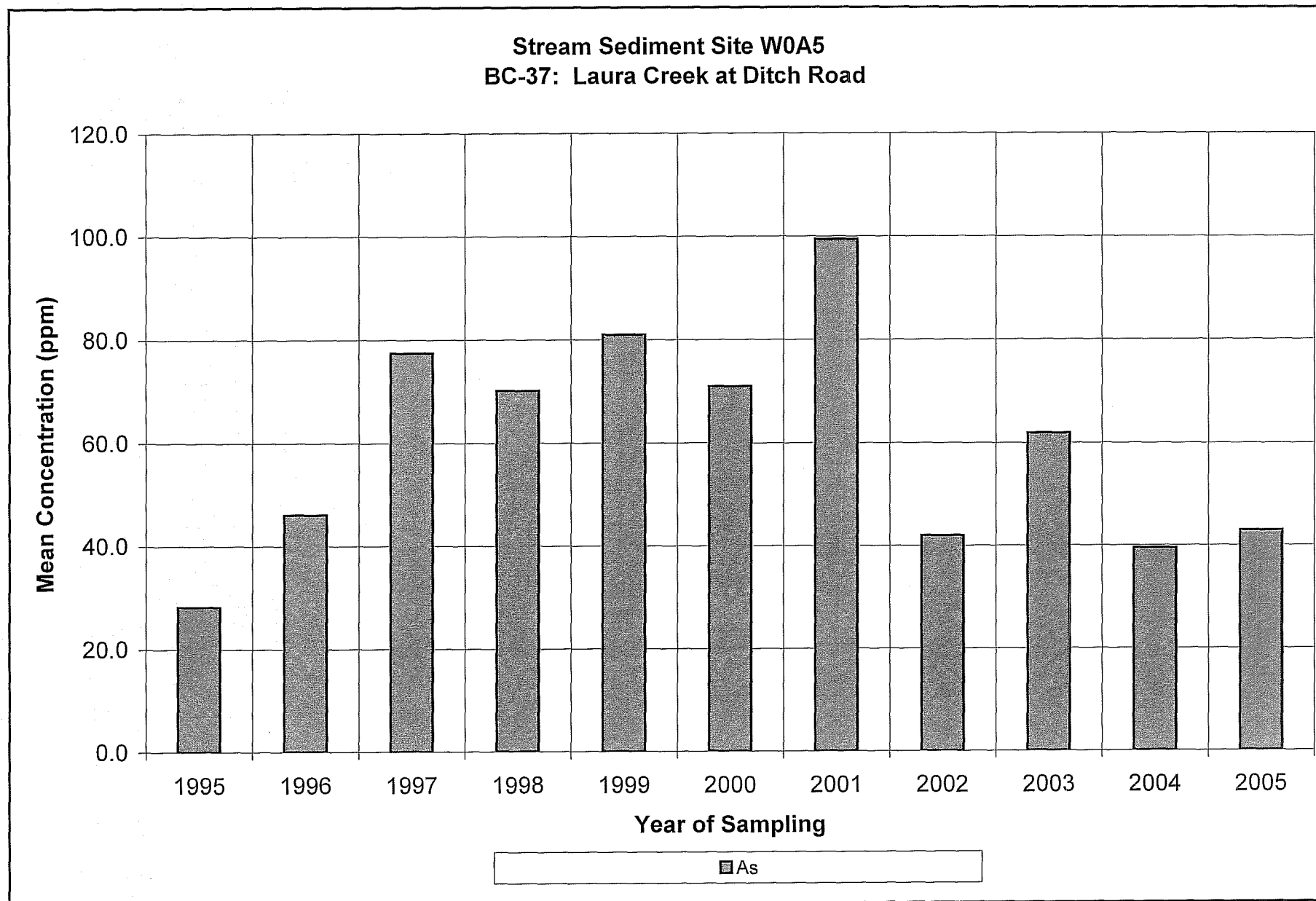


Stream Sediment Site W05
BC-1: Laura Creek 50m above the Ditch Road

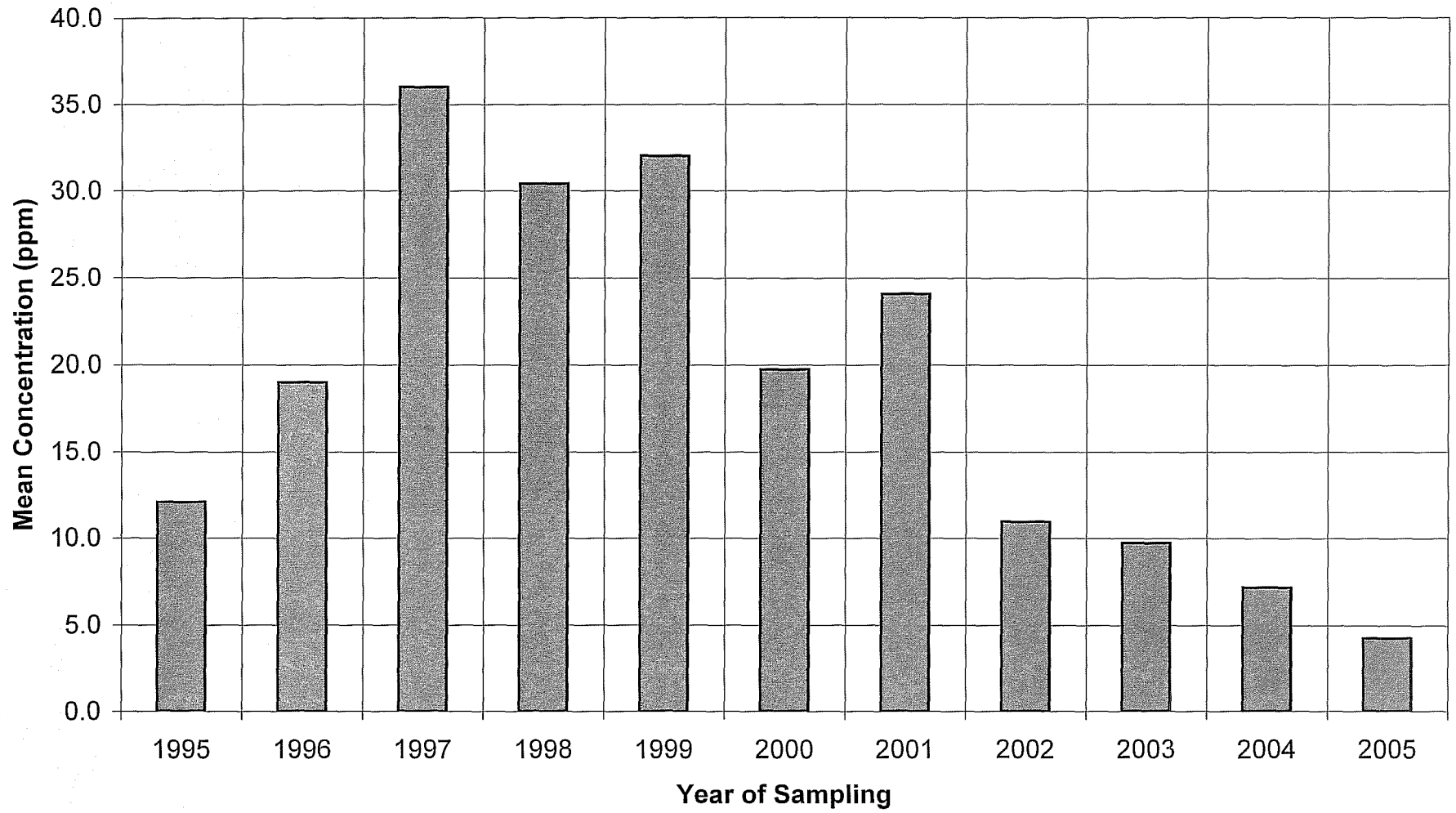


Stream Sediment Site W05
BC-1: Laura Creek 50m above the Ditch Road



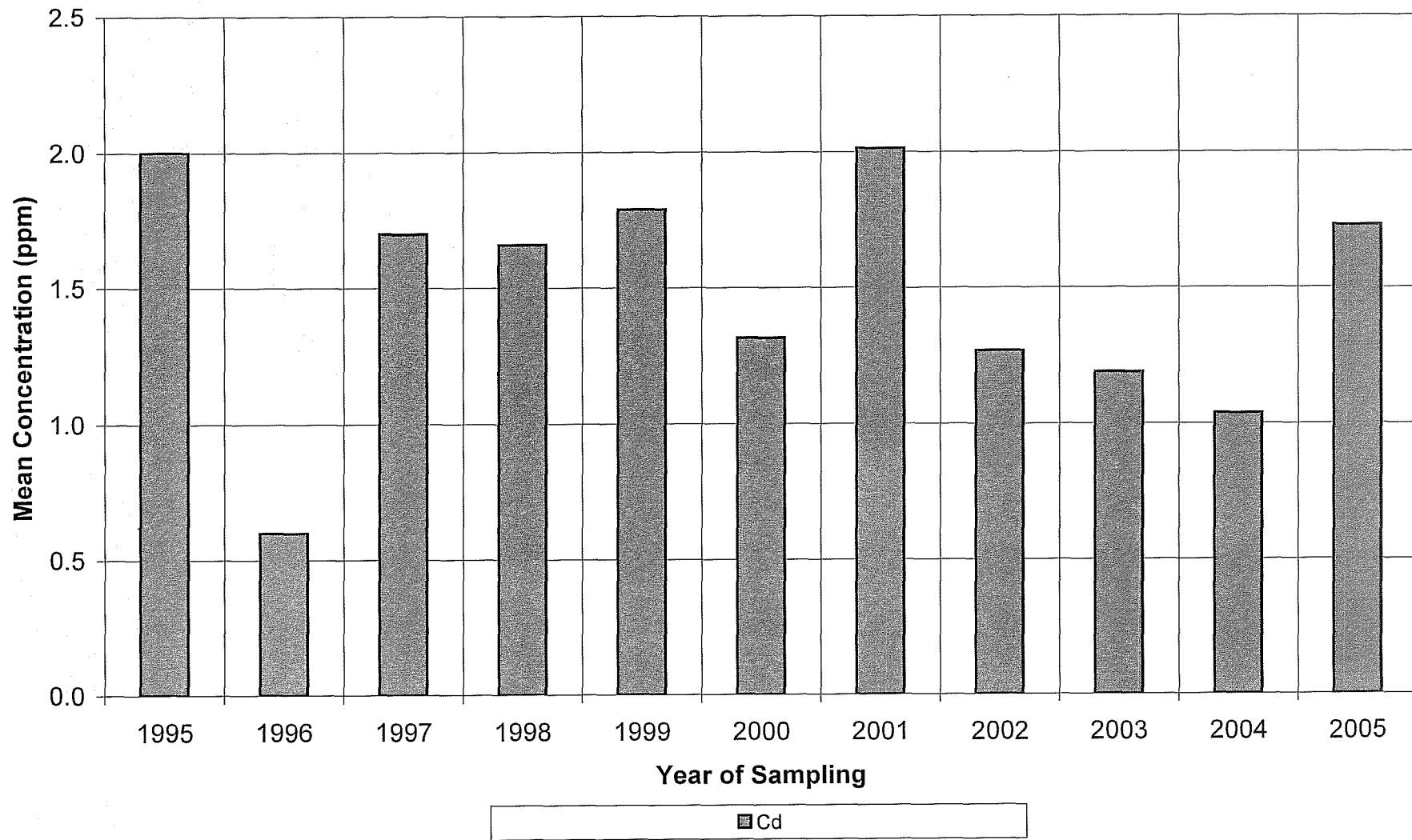


Stream Sediment Site W0A5
BC-37: Laura Creek at Ditch Road

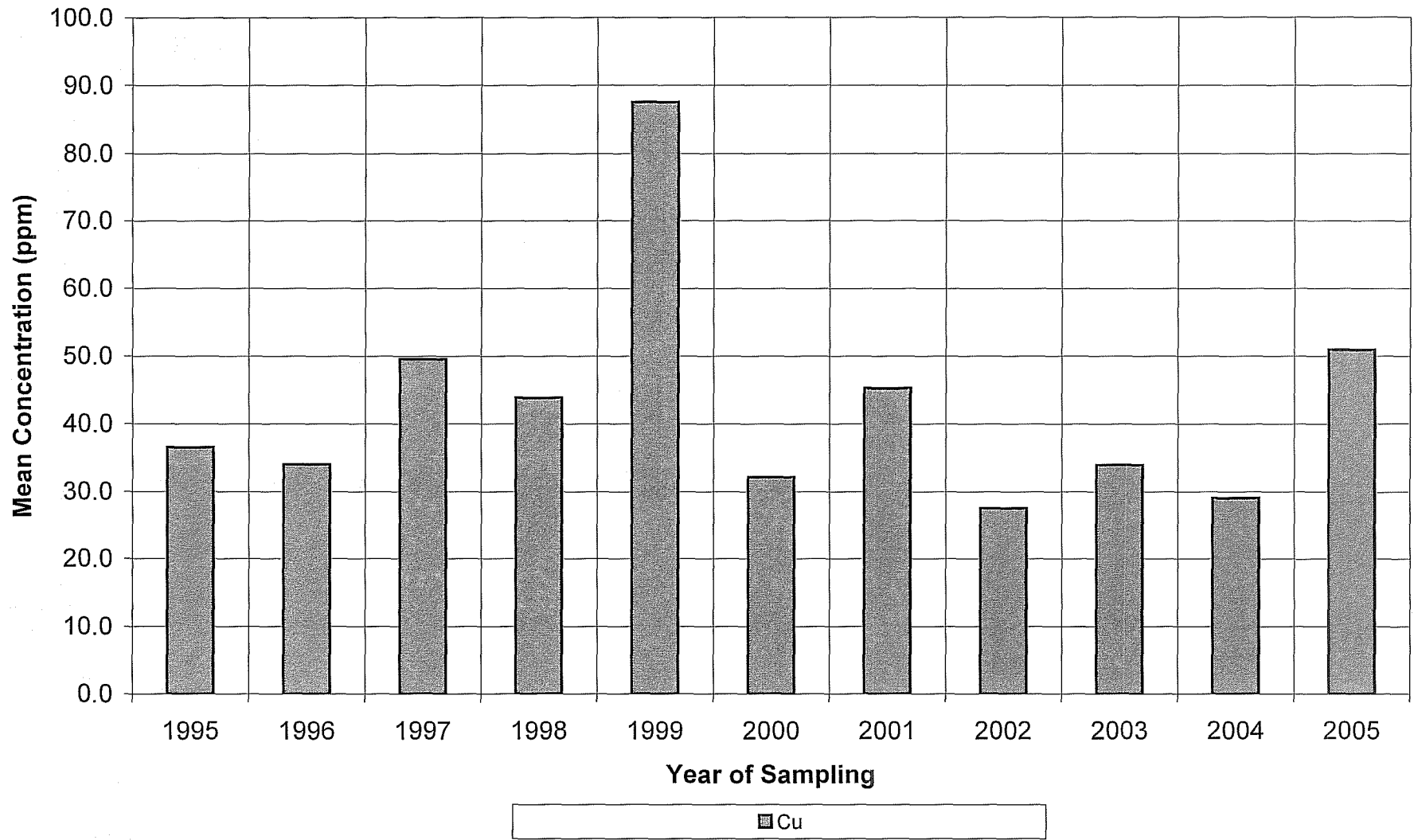


■ Sb

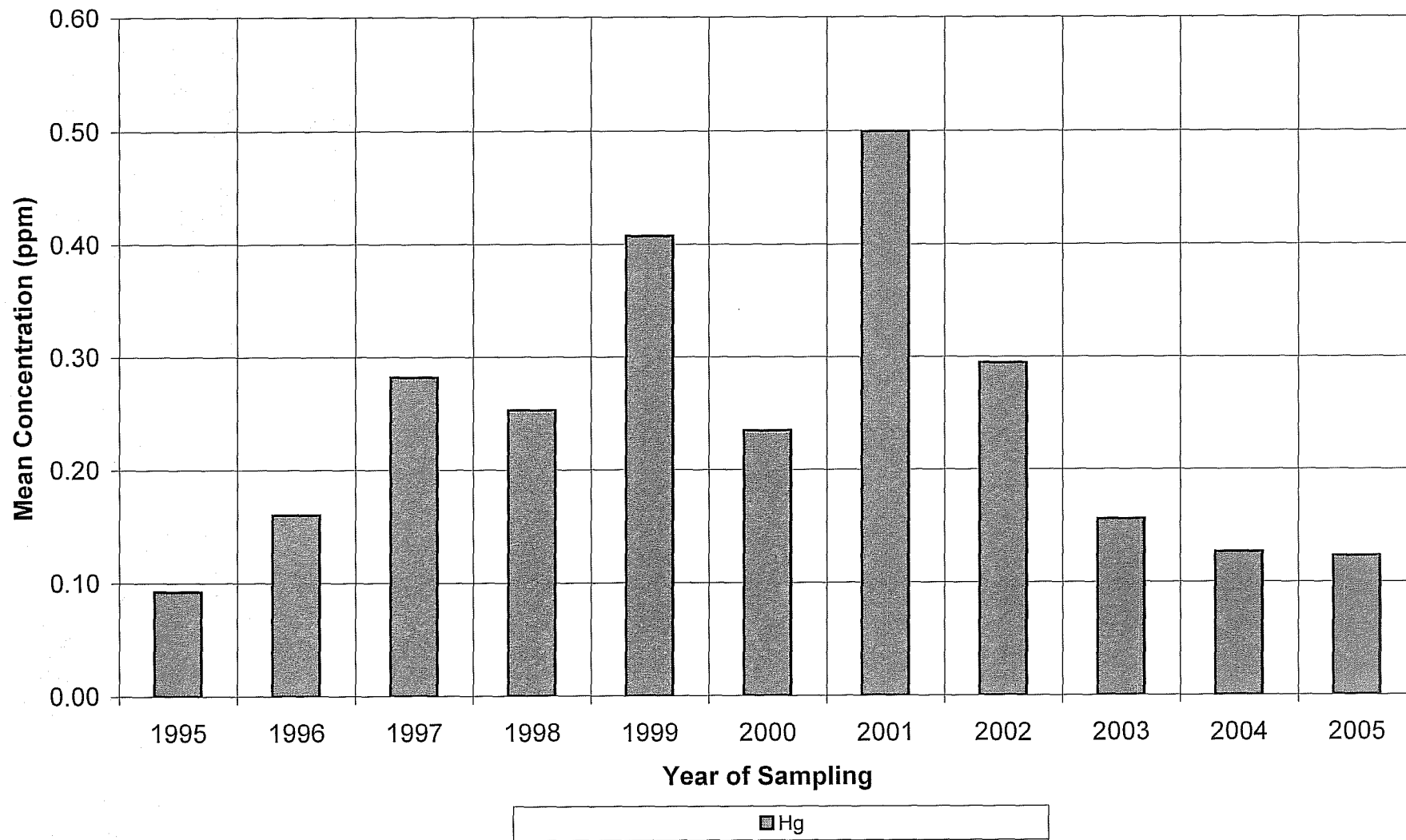
Stream Sediment Site W0A5
BC-37: Laura Creek at Ditch Road



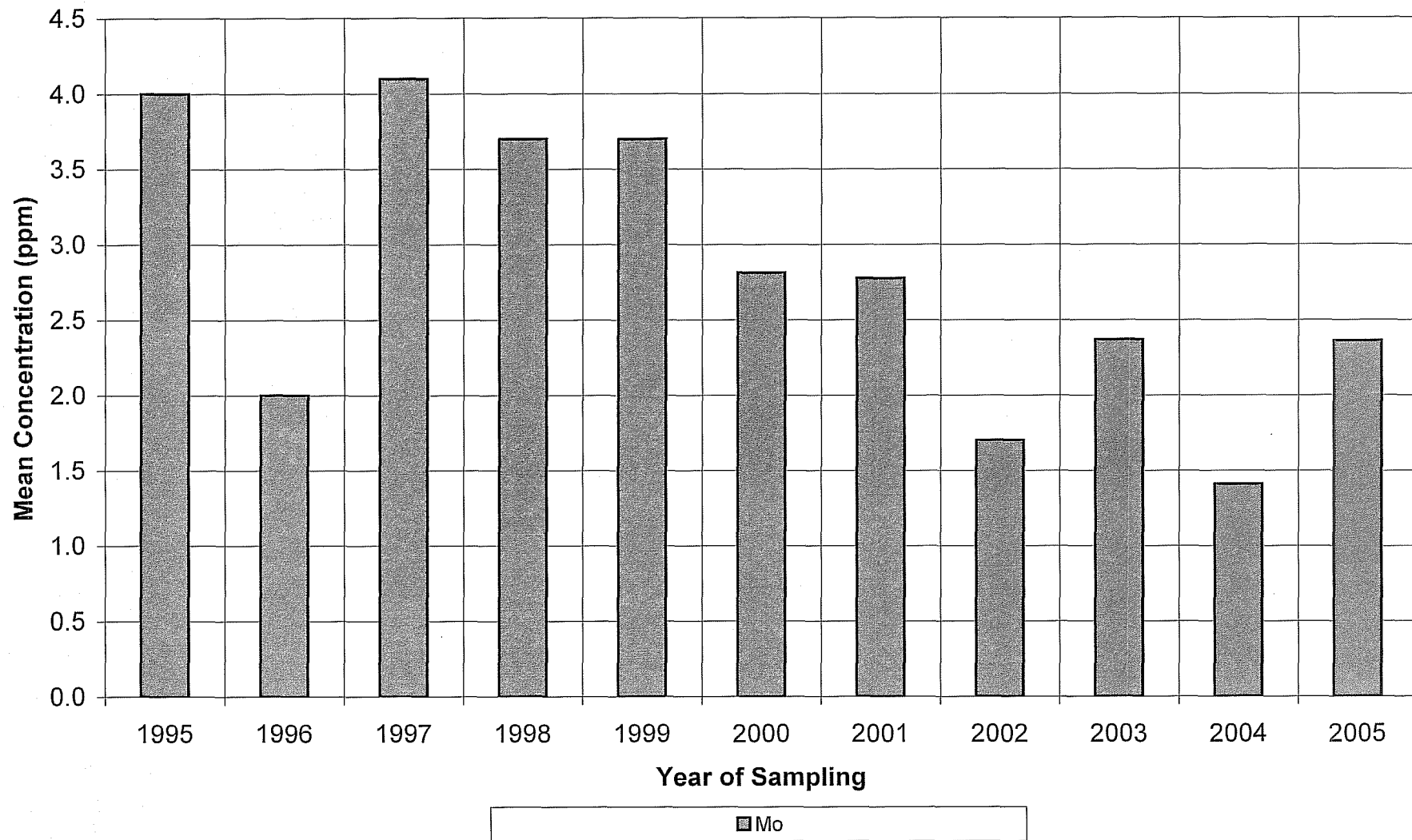
Stream Sediment Site W0A5
BC-37: Laura Creek at Ditch Road



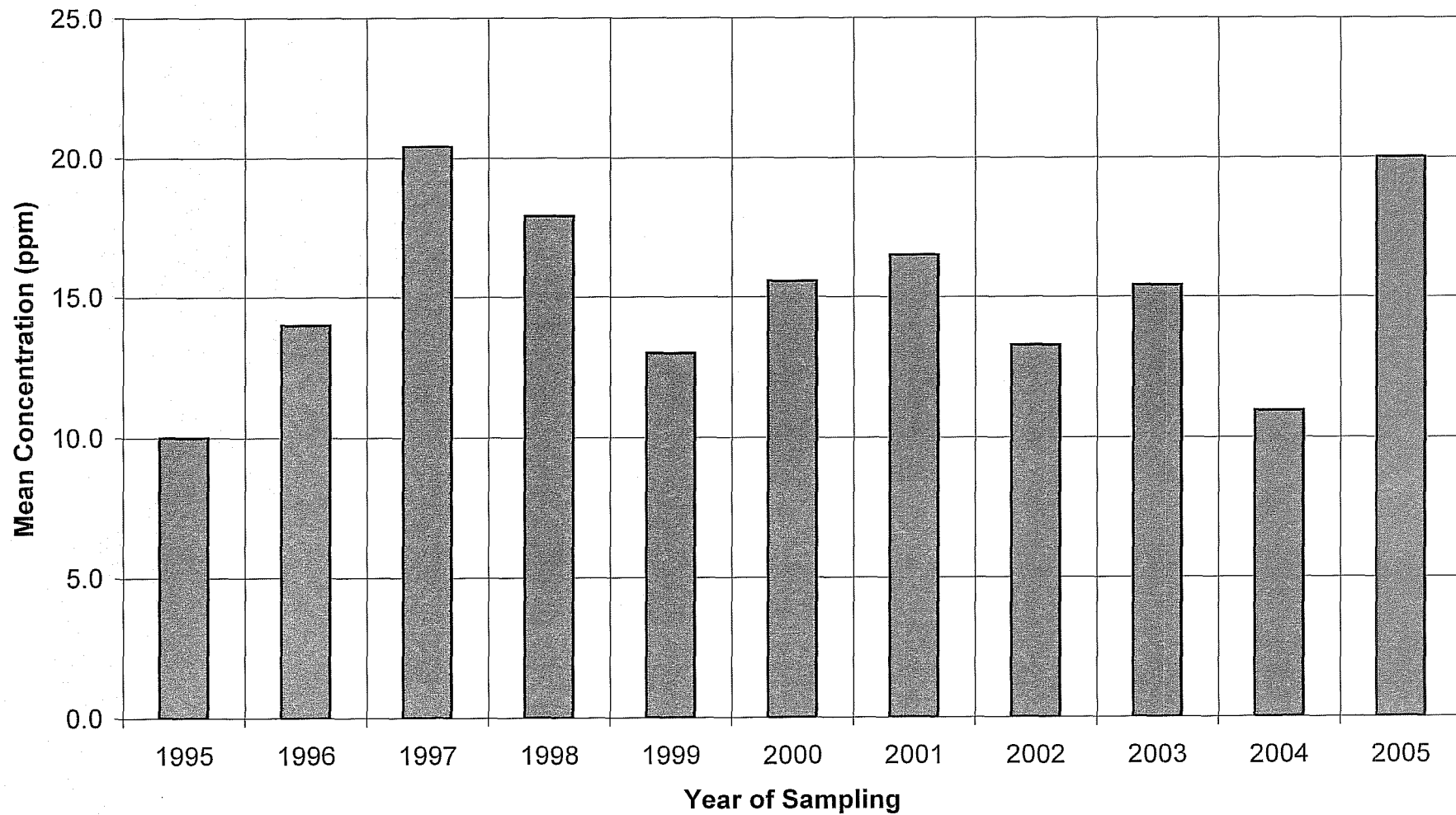
Stream Sediment Site W0A5
BC-37: Laura Creek at Ditch Road



Stream Sediment Site W0A5
BC-37: Laura Creek at Ditch Road

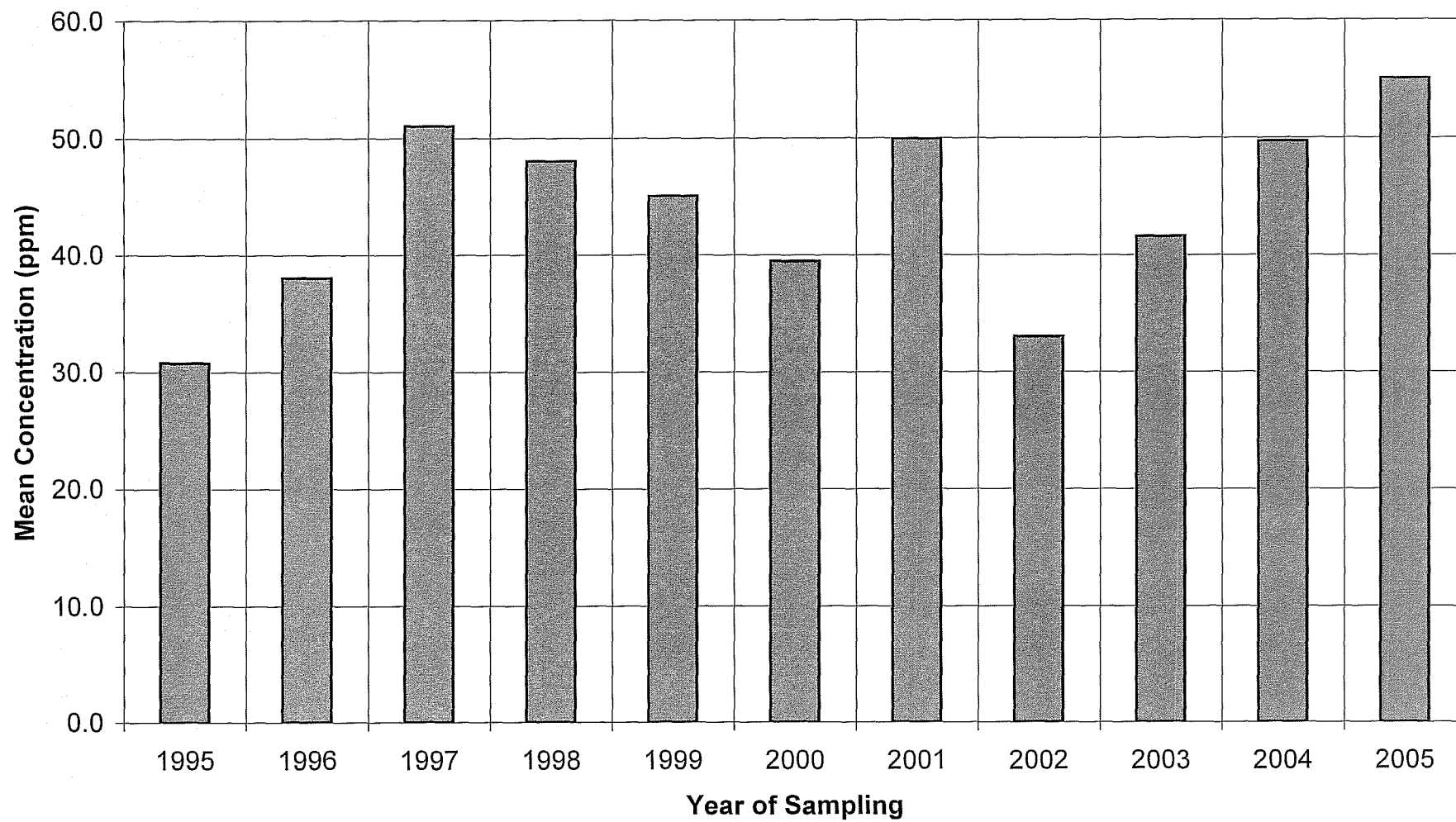


Stream Sediment Site W0A5
BC-37: Laura Creek at Ditch Road



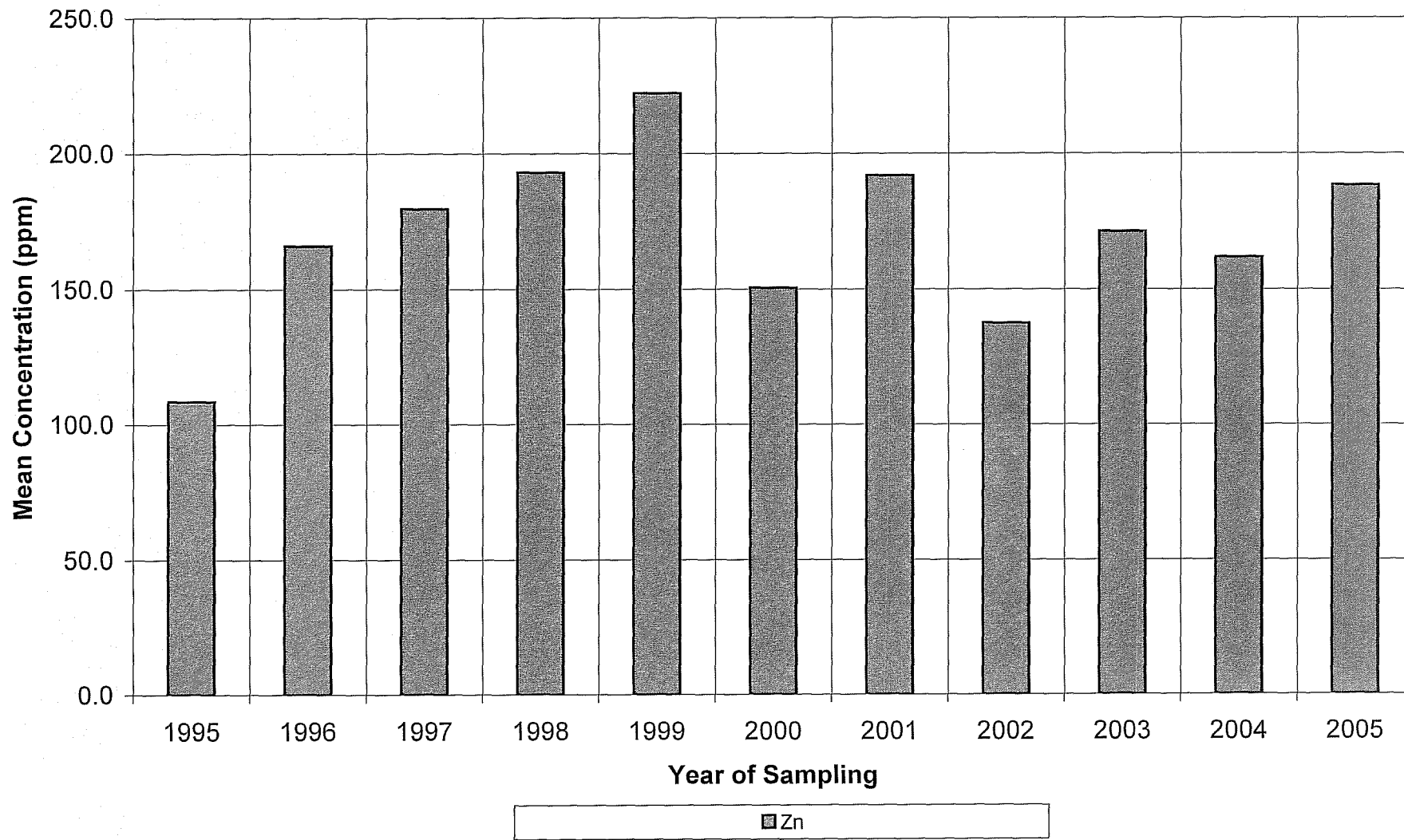
Pb

Stream Sediment Site W0A5
BC-37: Laura Creek at Ditch Road

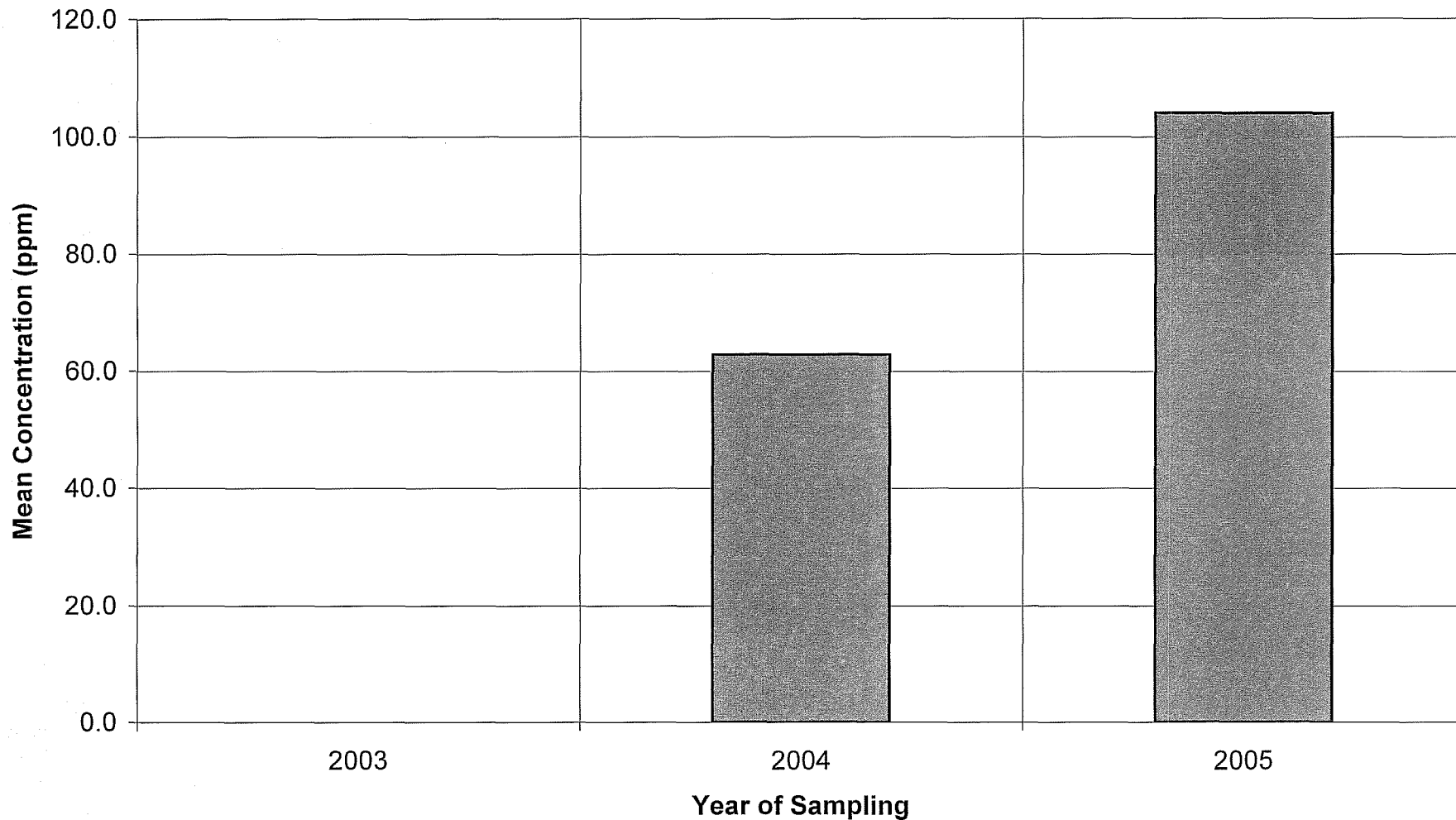


■ Ni

Stream Sediment Site W0A5
BC-37: Laura Creek at Ditch Road

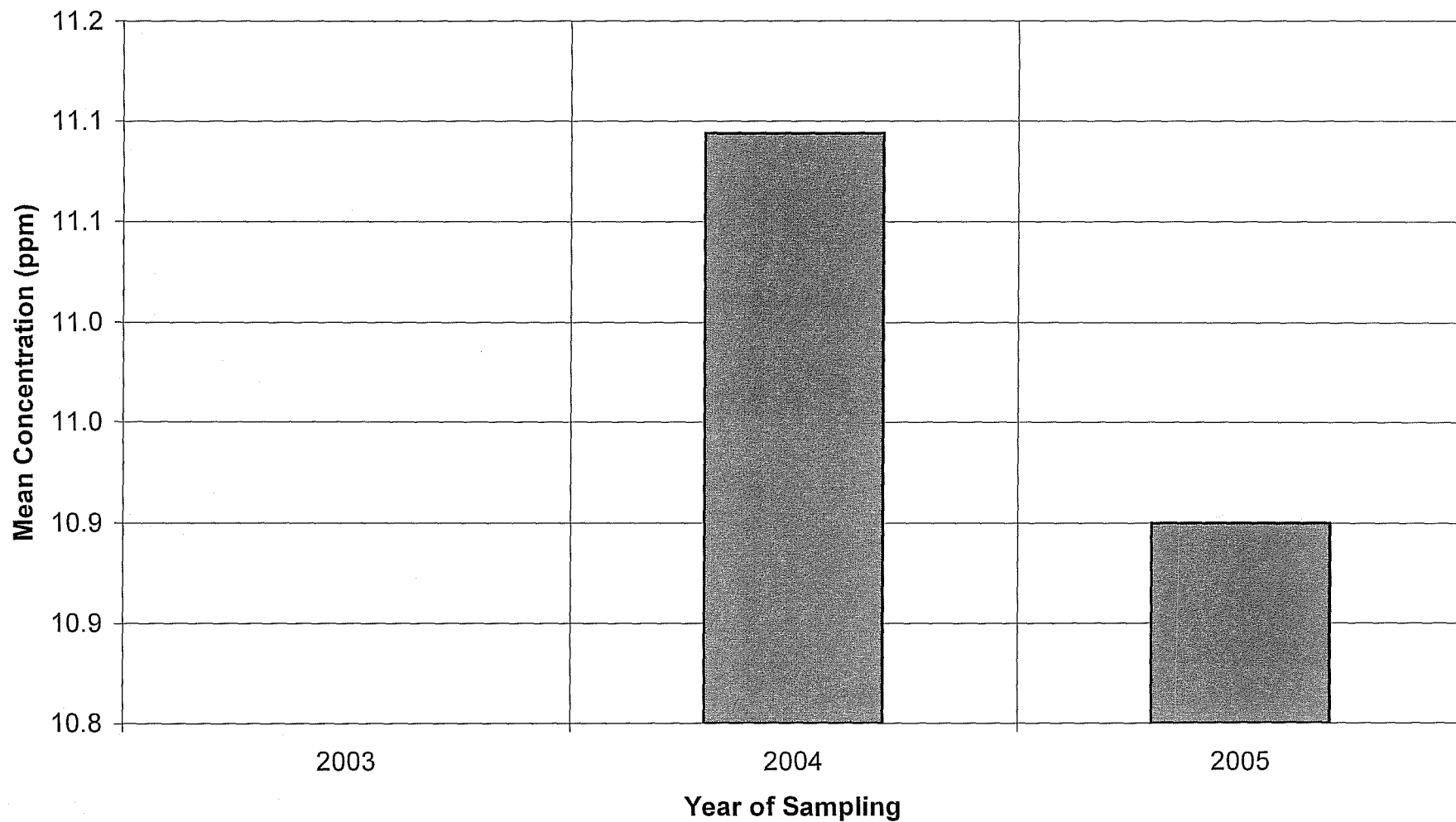


Stream Sediment Site W39
BC-39: Laura Creek at confluence with South Klondike



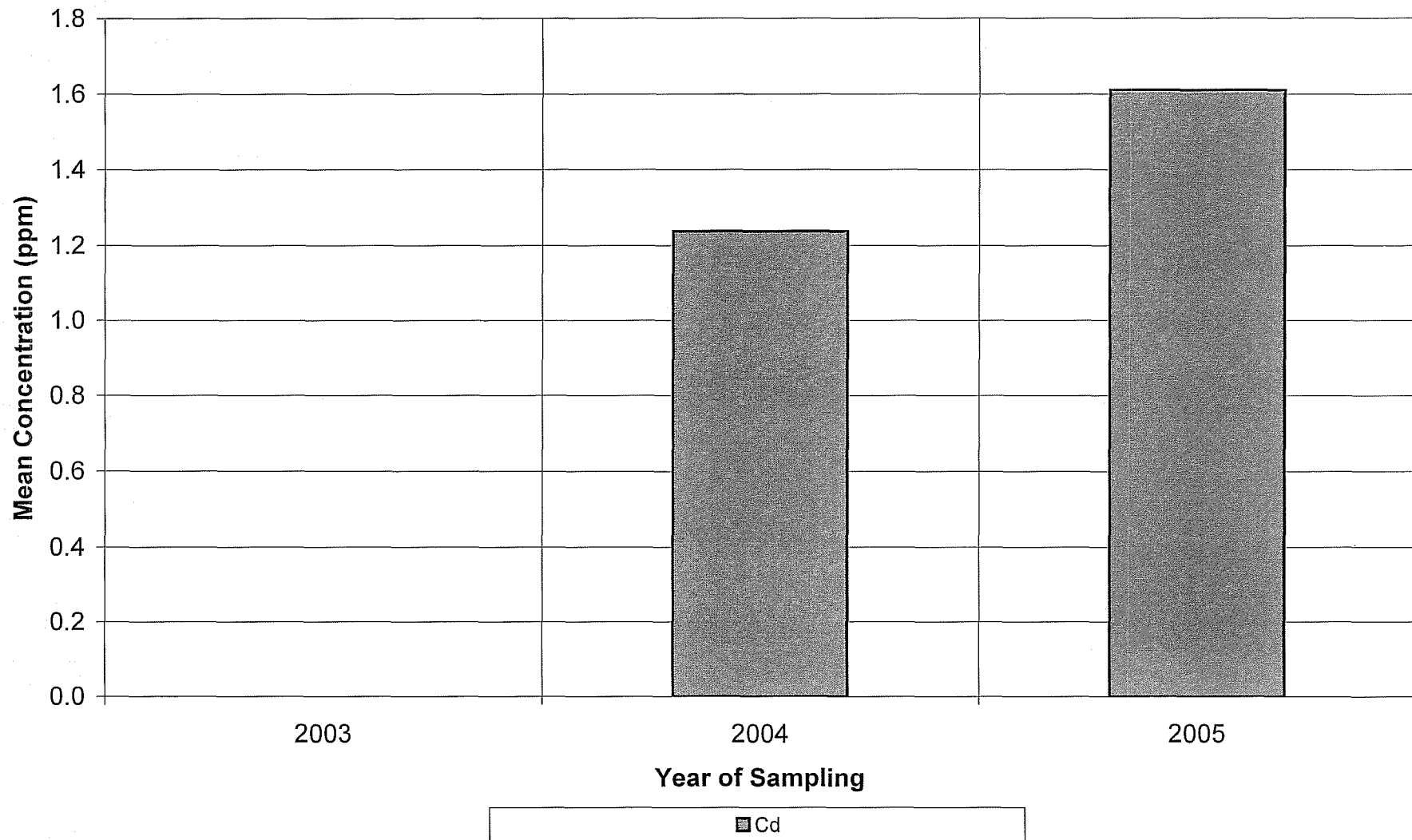
■ As

Stream Sediment Site W39
BC-39: Laura Creek at confluence with South Klondike

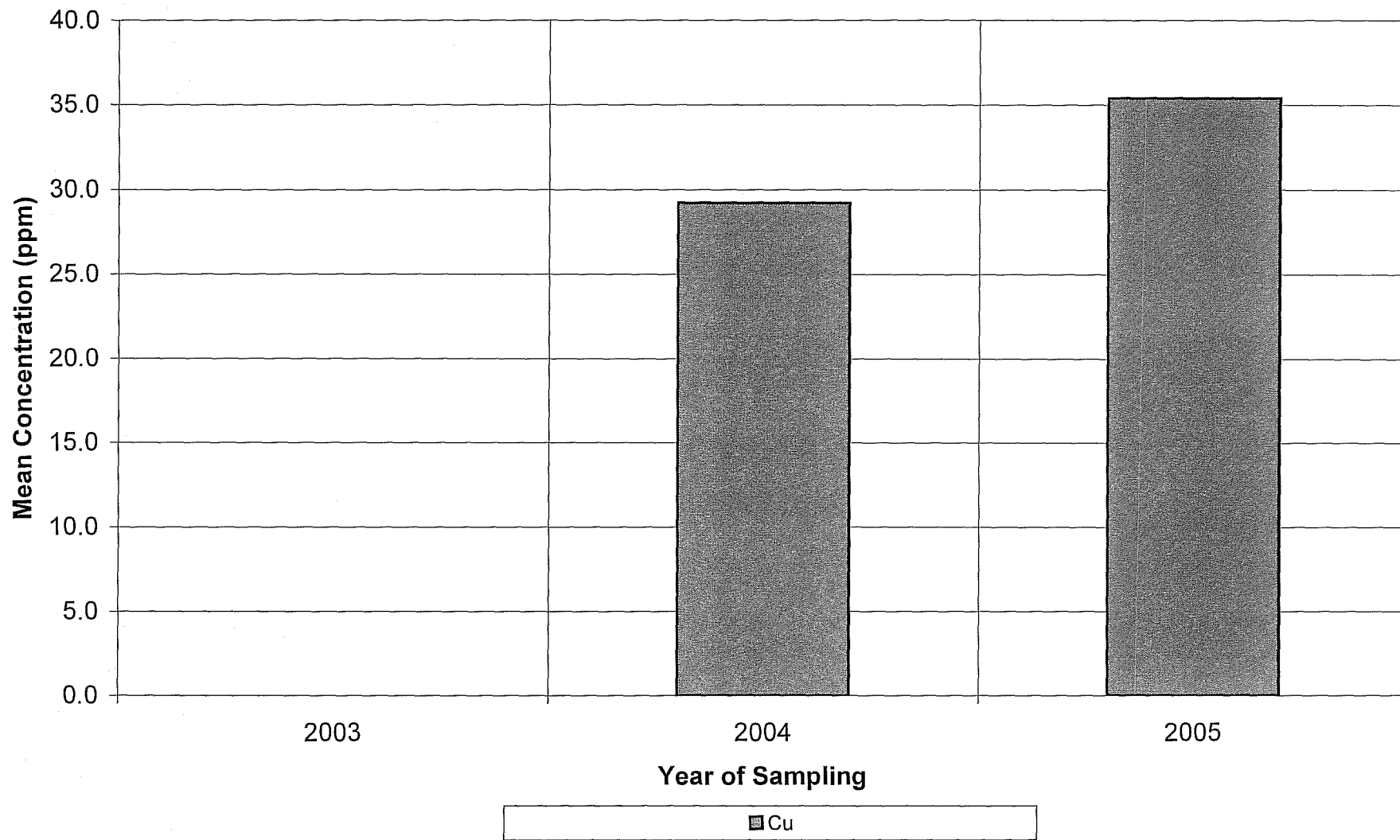


■ Sb

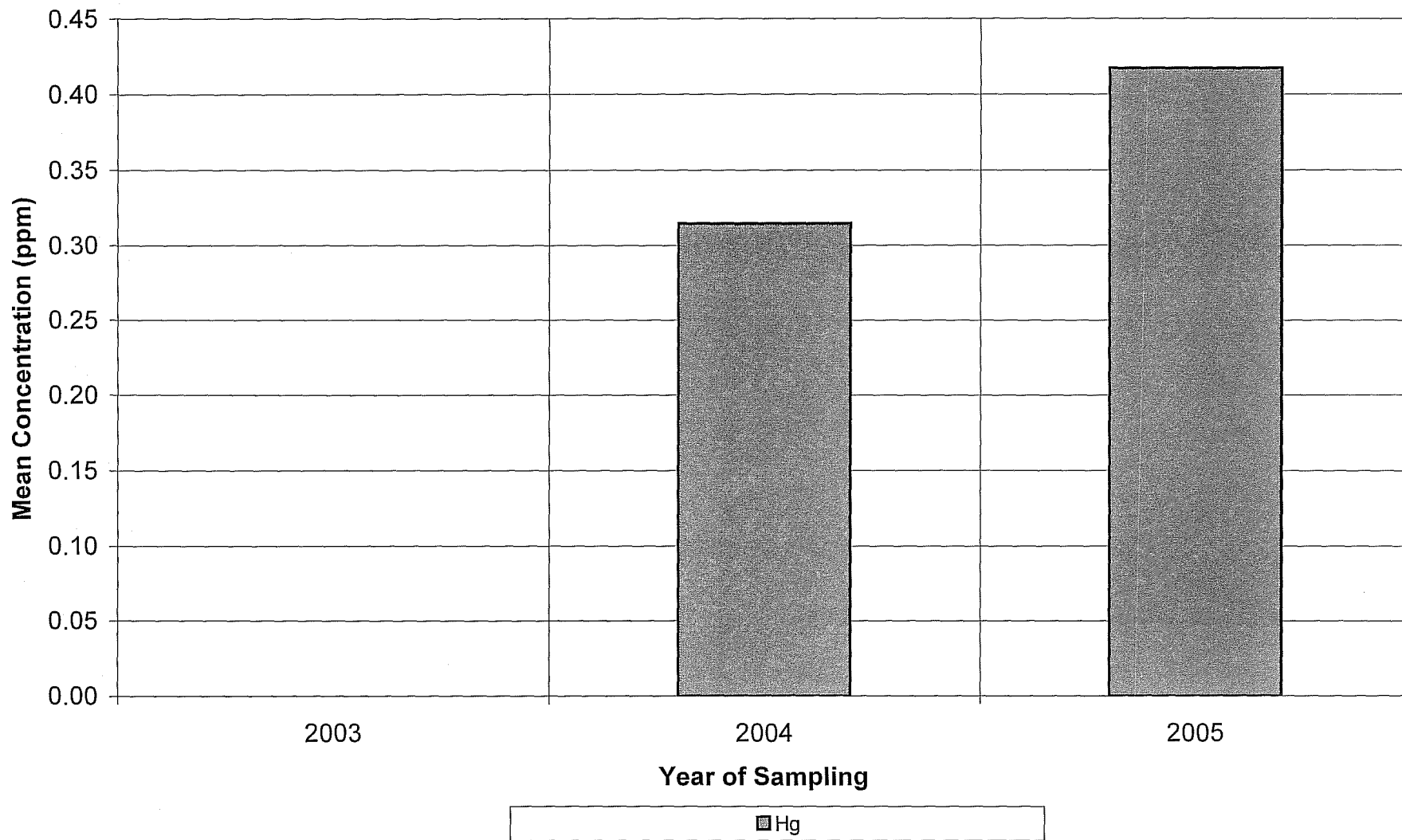
Stream Sediment Site W39
BC-39: Laura Creek at confluence with South Klondike



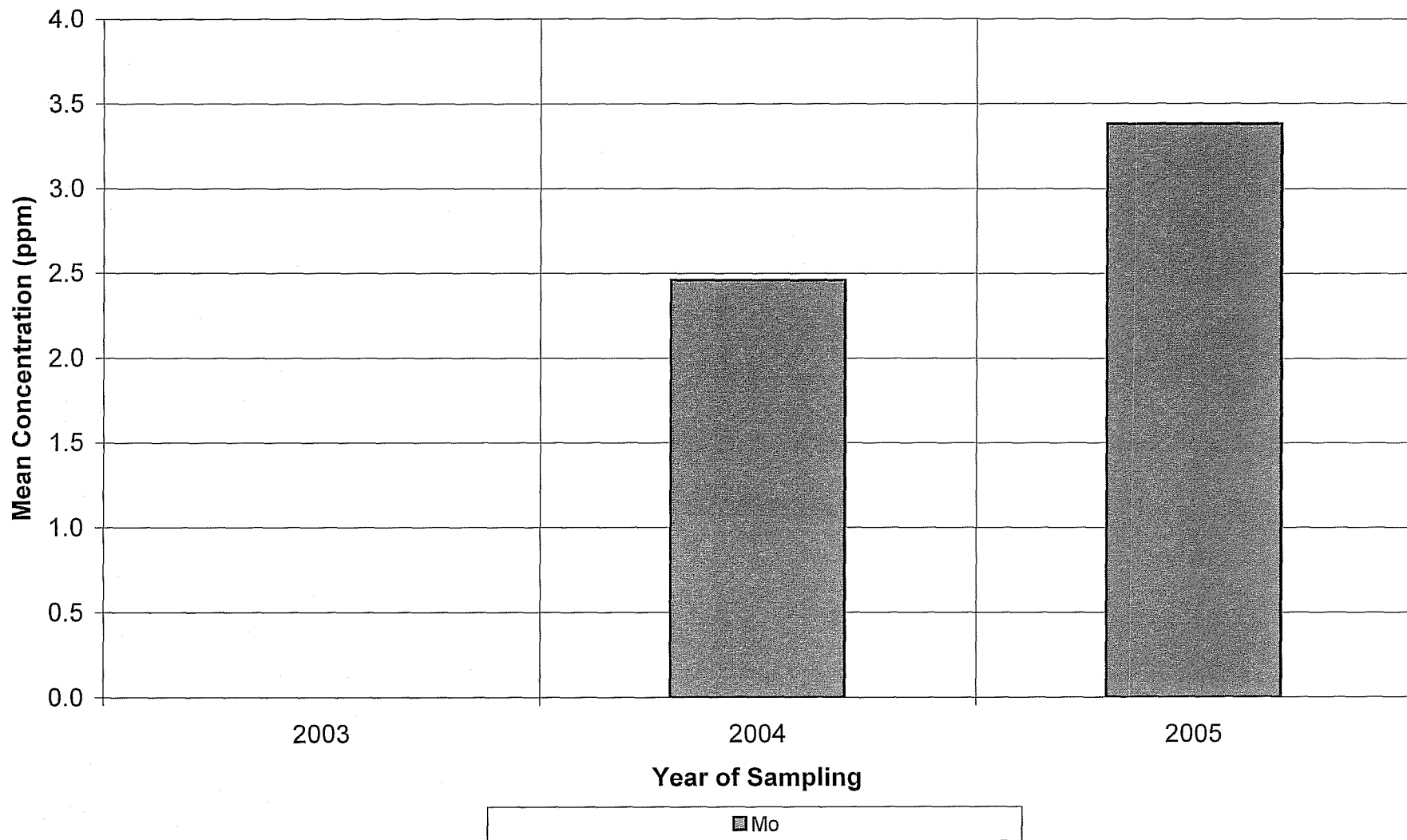
Stream Sediment Site W39
BC-39: Laura Creek at confluence with South Klondike



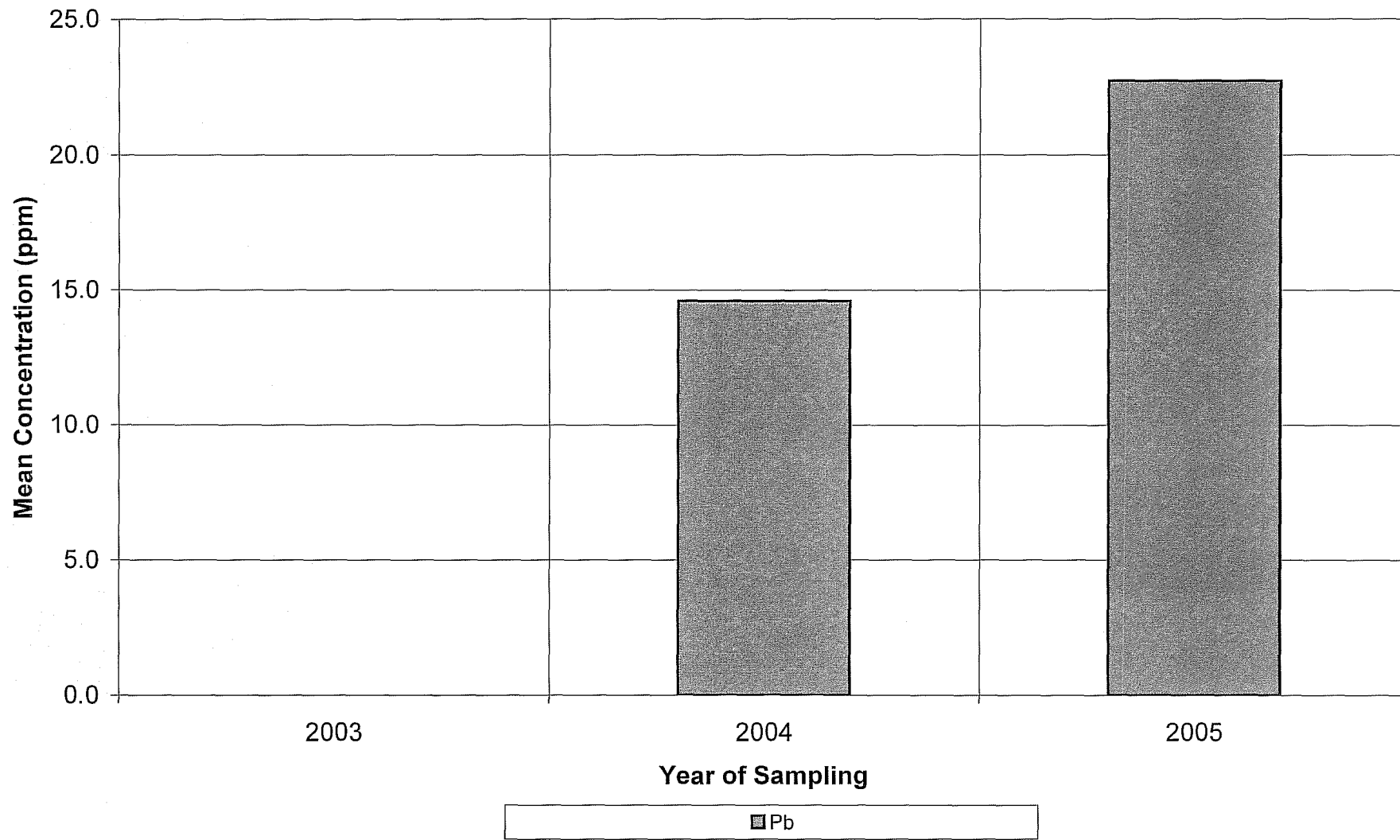
Stream Sediment Site W39
BC-39: Laura Creek at confluence with South Klondike



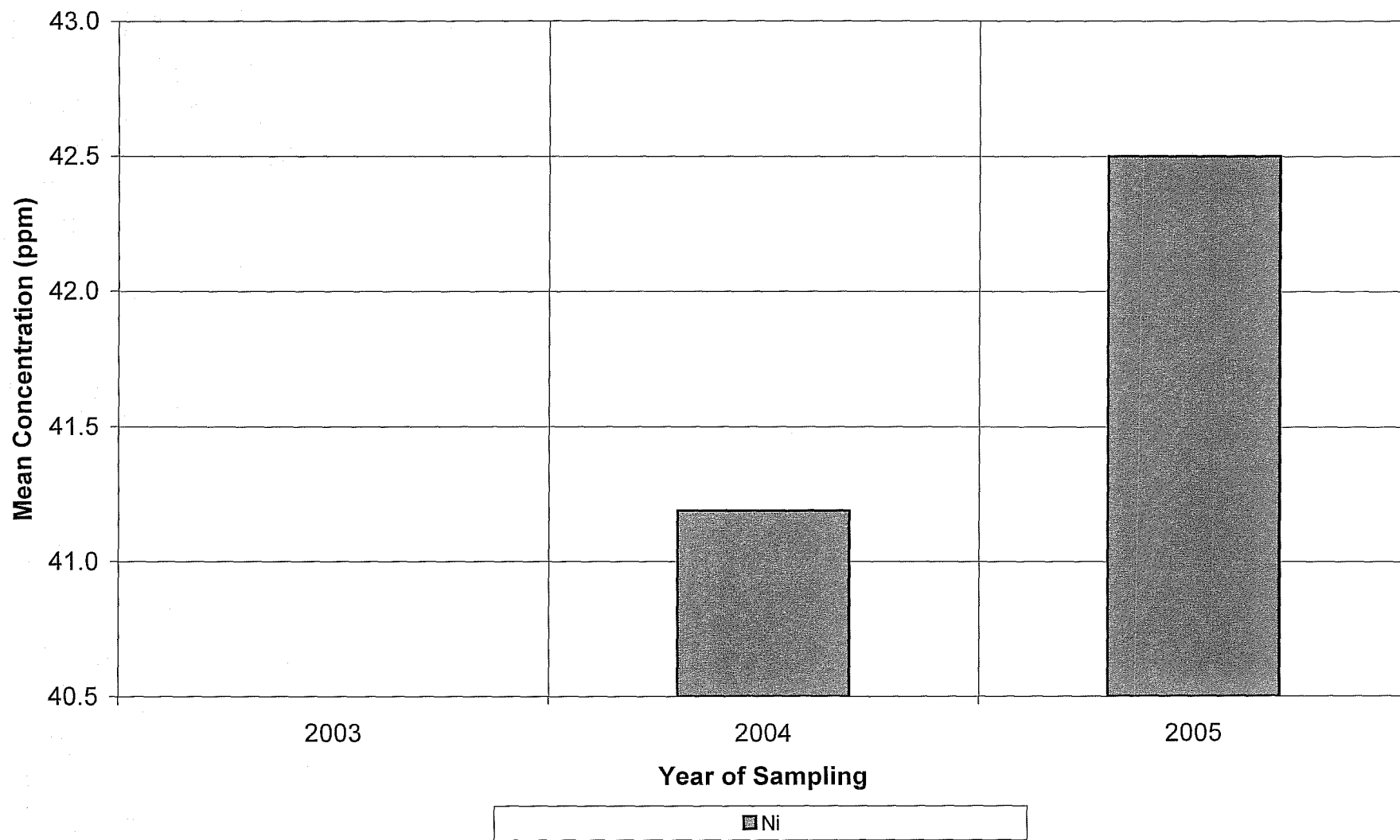
Stream Sediment Site W39
BC-39: Laura Creek at confluence with South Klondike



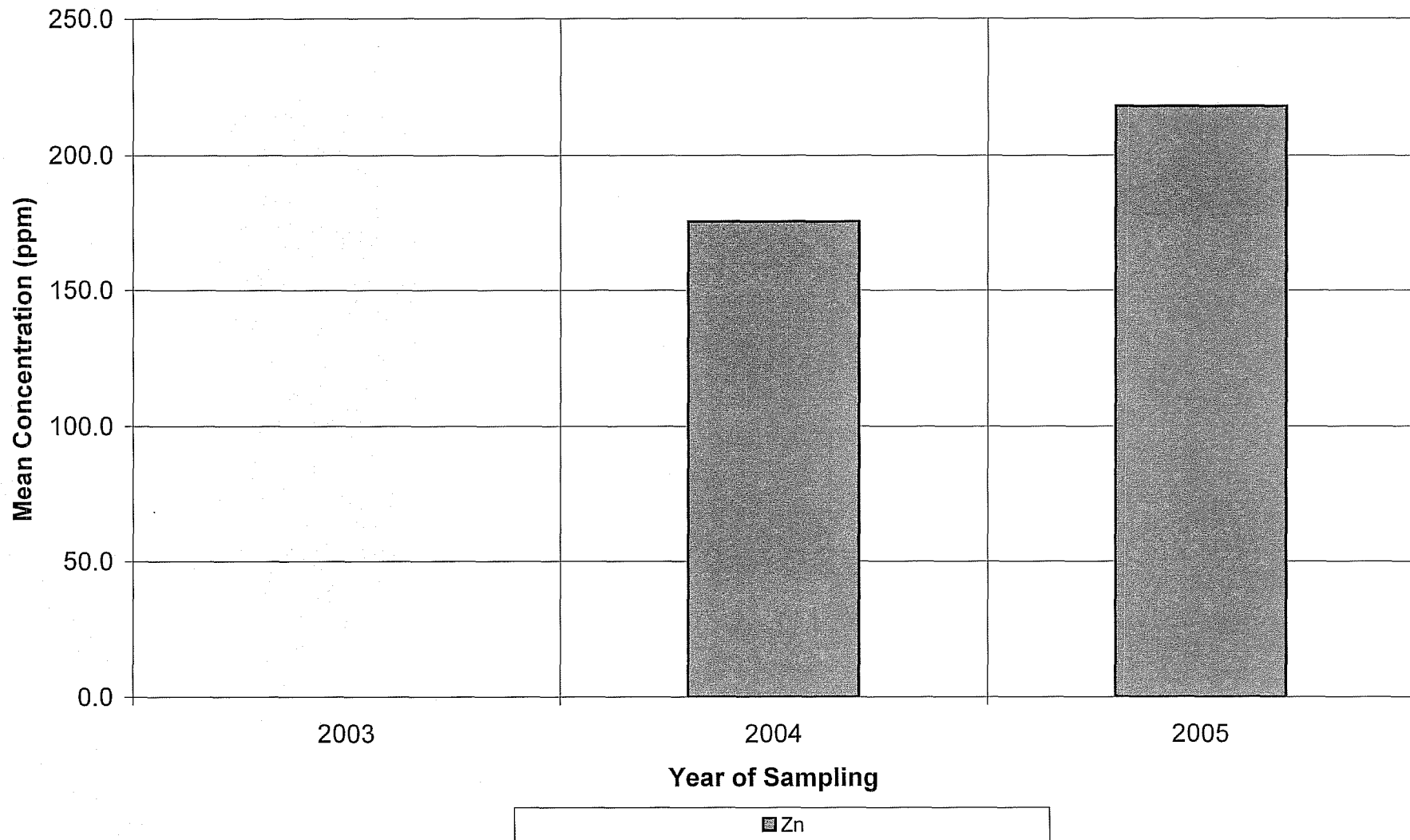
Stream Sediment Site W39
BC-39: Laura Creek at confluence with South Klondike



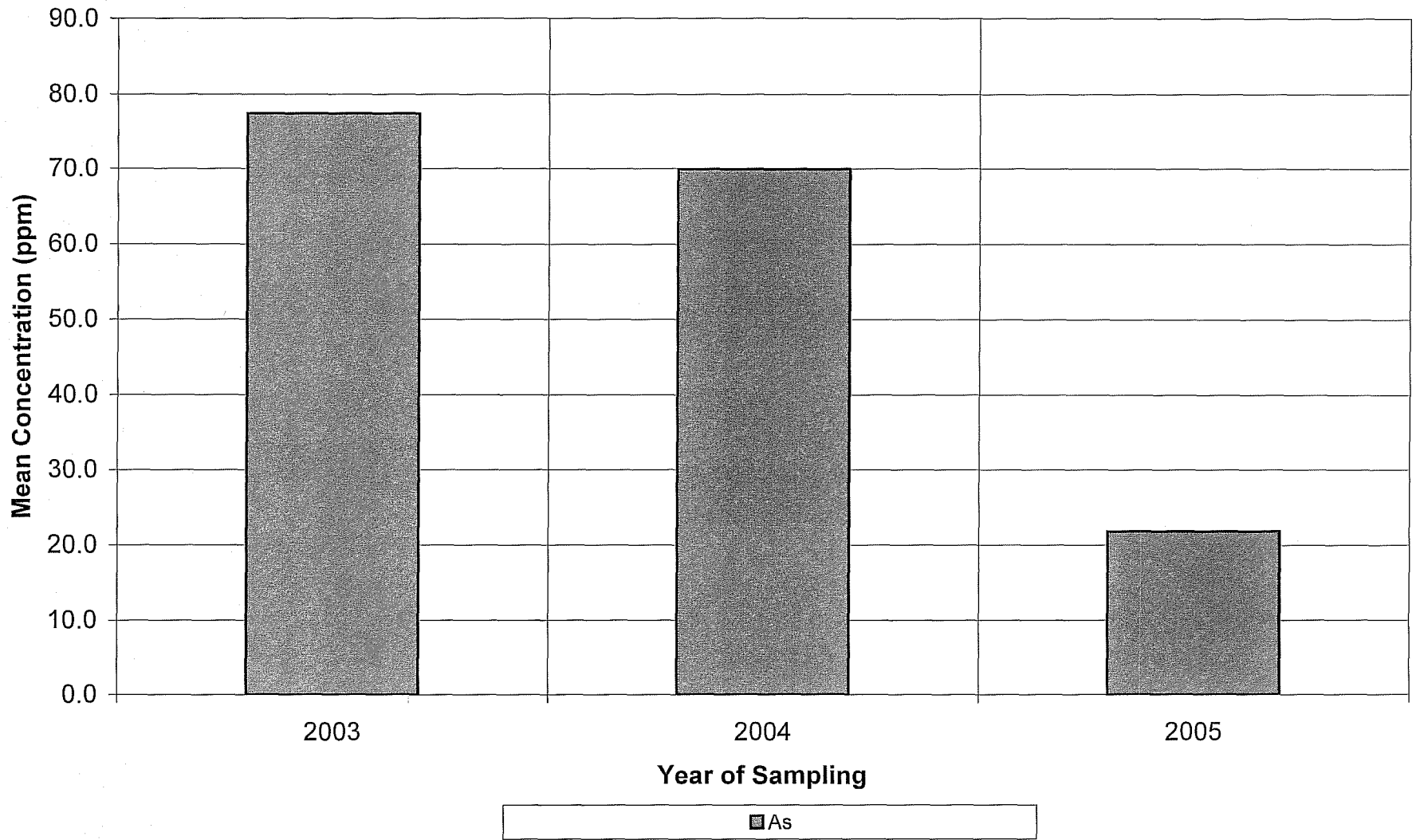
Stream Sediment Site W39
BC-39: Laura Creek at confluence with South Klondike



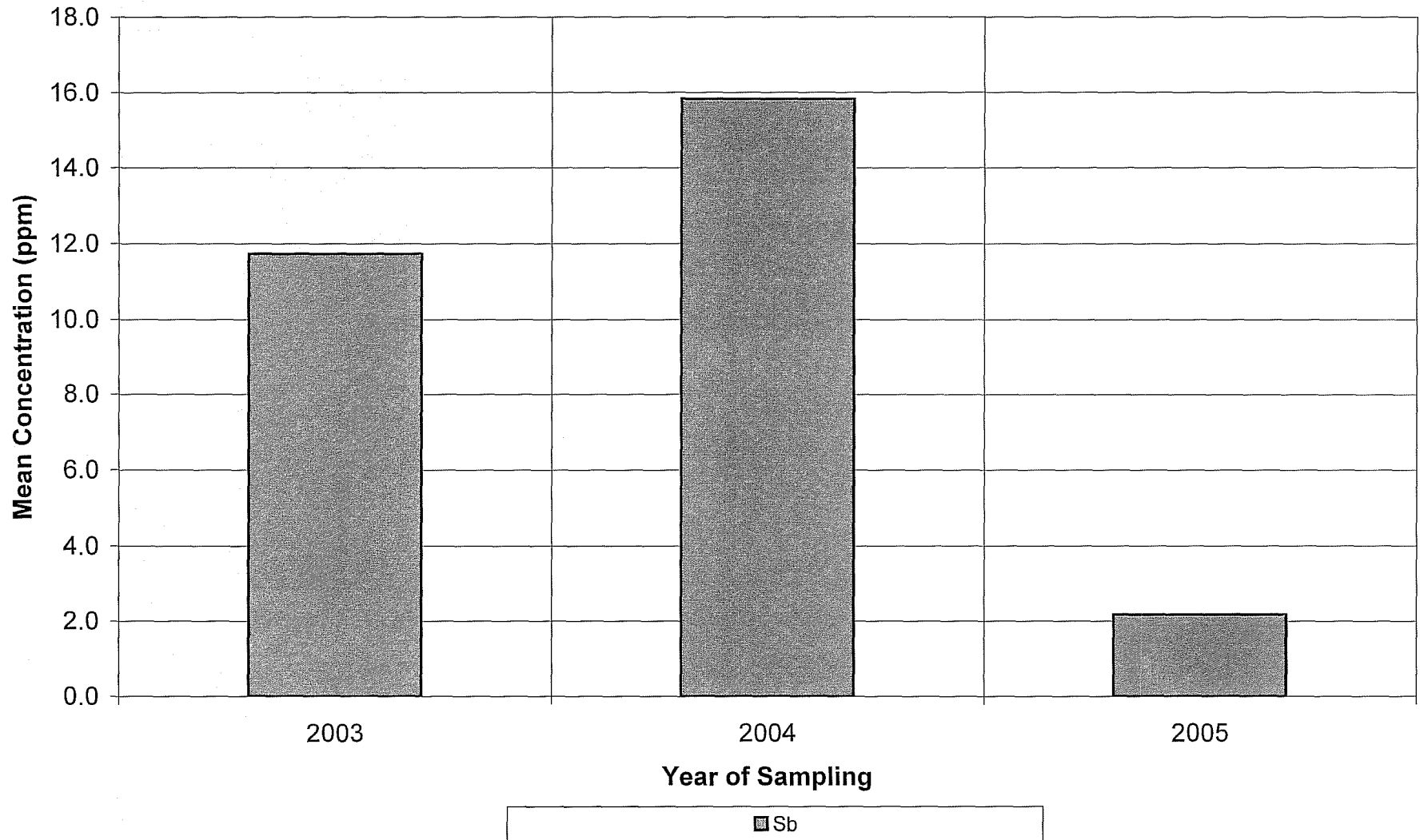
Stream Sediment Site W39
BC-39: Laura Creek at confluence with South Klondike



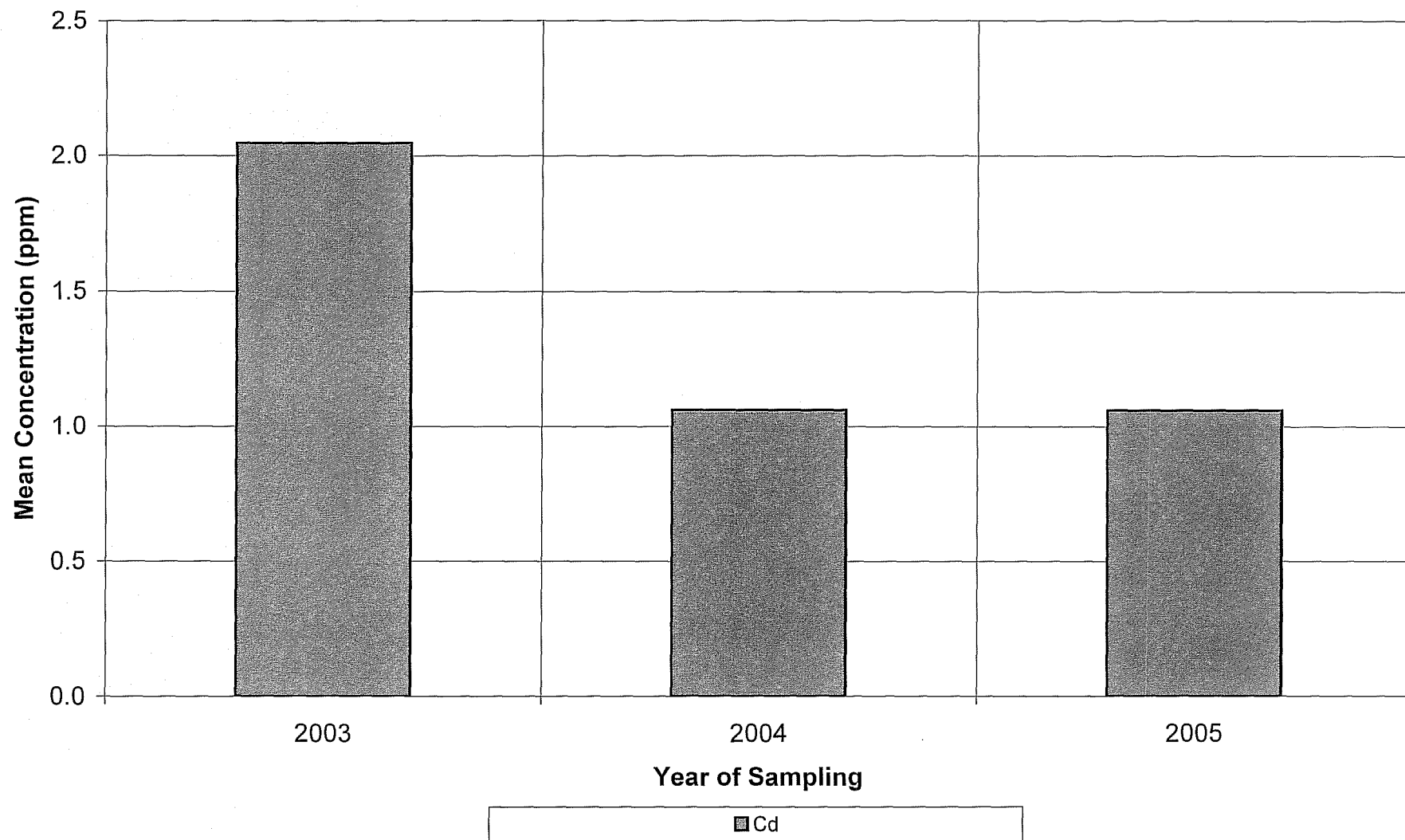
Stream Sediment Site W53
BC-53: Laura Creek 100m downstream of Ditch Road



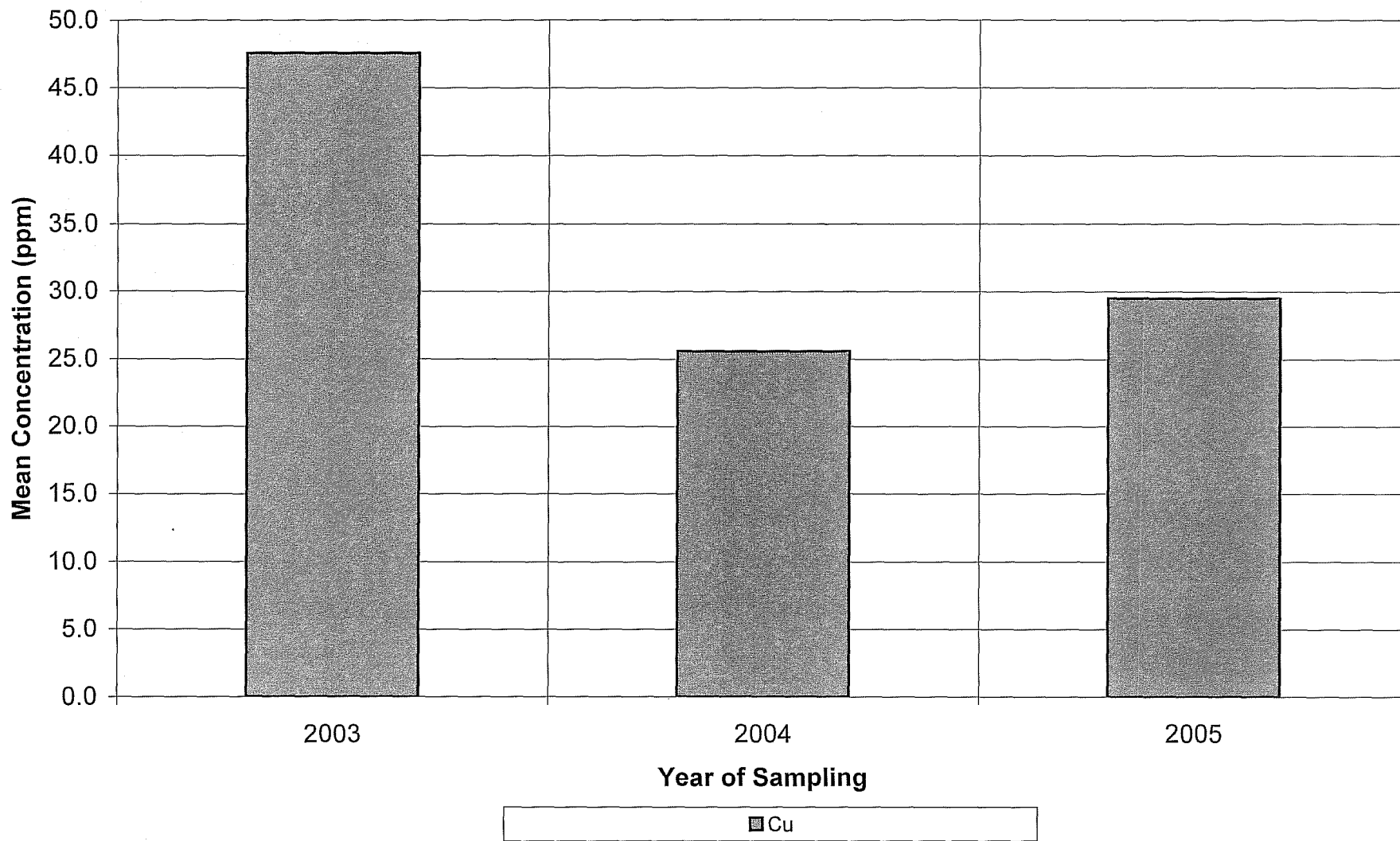
Stream Sediment Site W53
BC-53: Laura Creek 100m downstream of Ditch Road



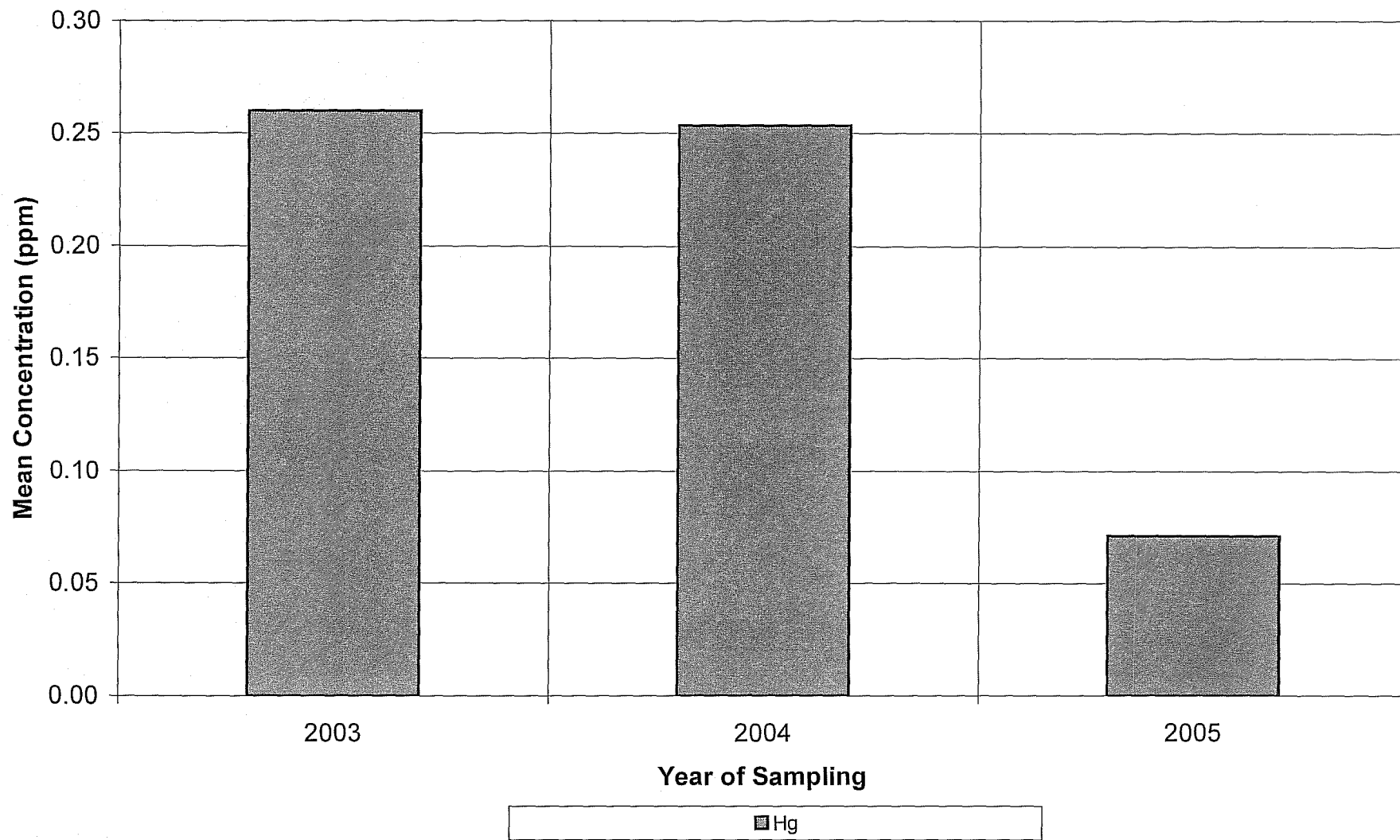
Stream Sediment Site W53
BC-53: Laura Creek 100m downstream of Ditch Road



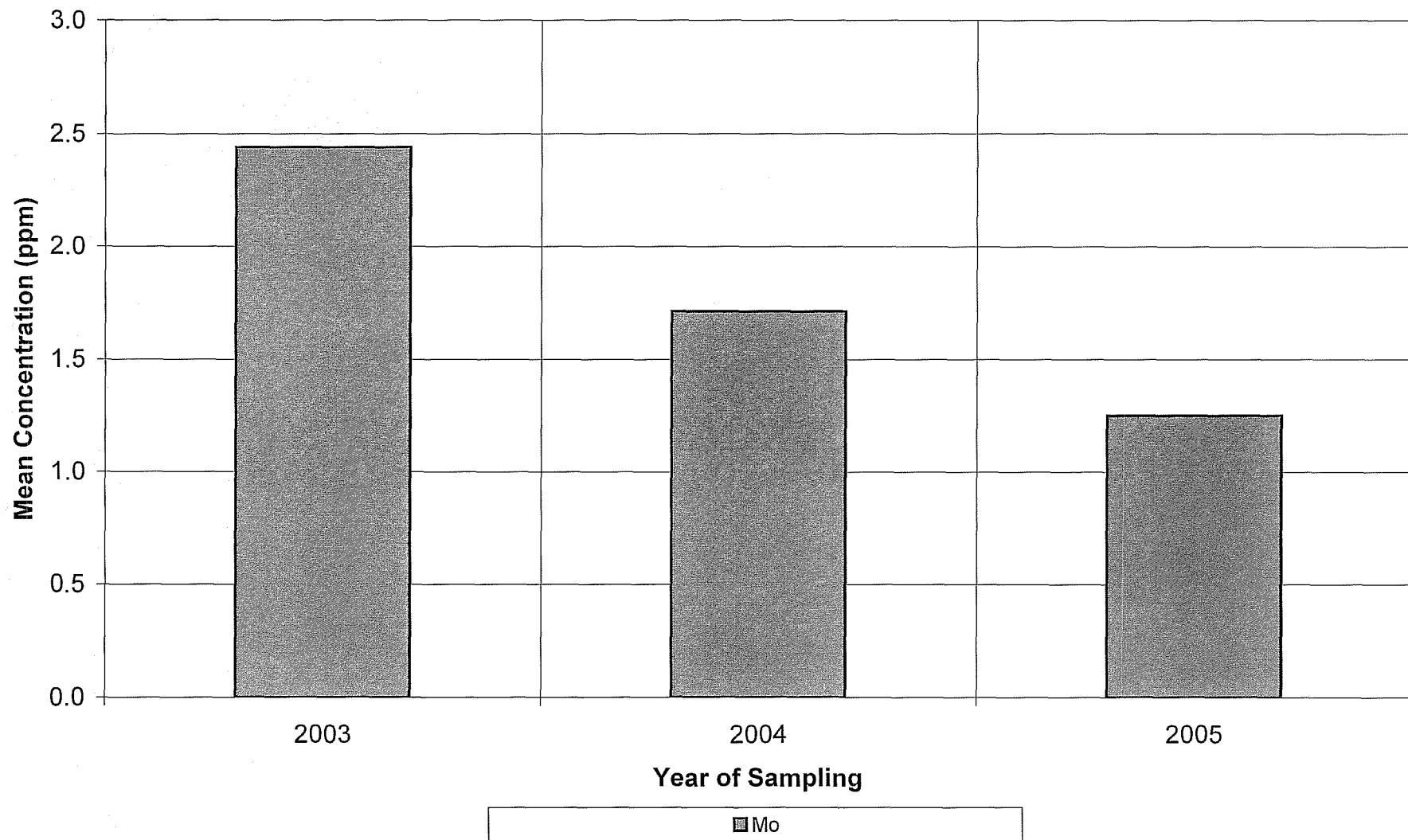
Stream Sediment Site W53
BC-53: Laura Creek 100m downstream of Ditch Road



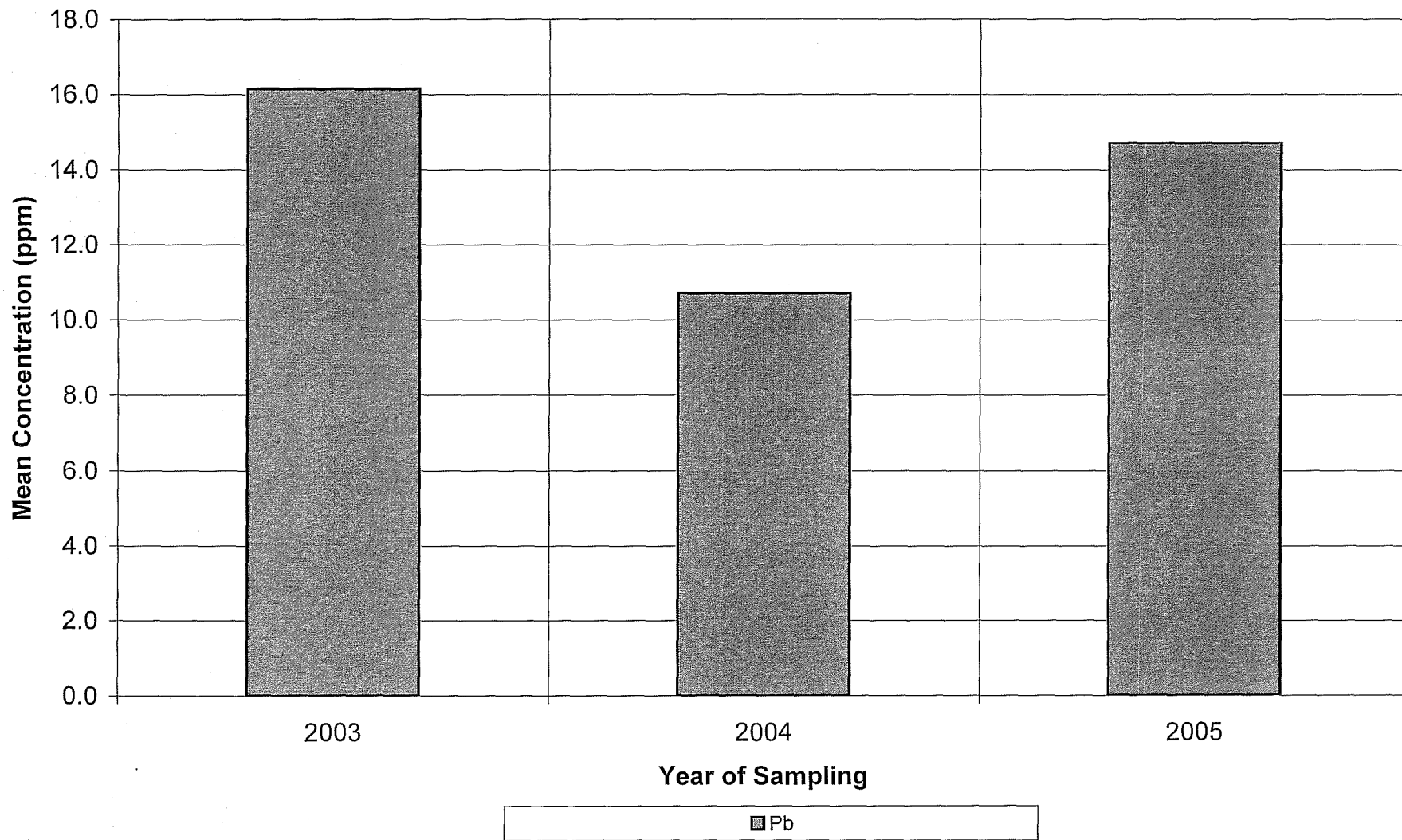
Stream Sediment Site W53
BC-53: Laura Creek 100m downstream of Ditch Road



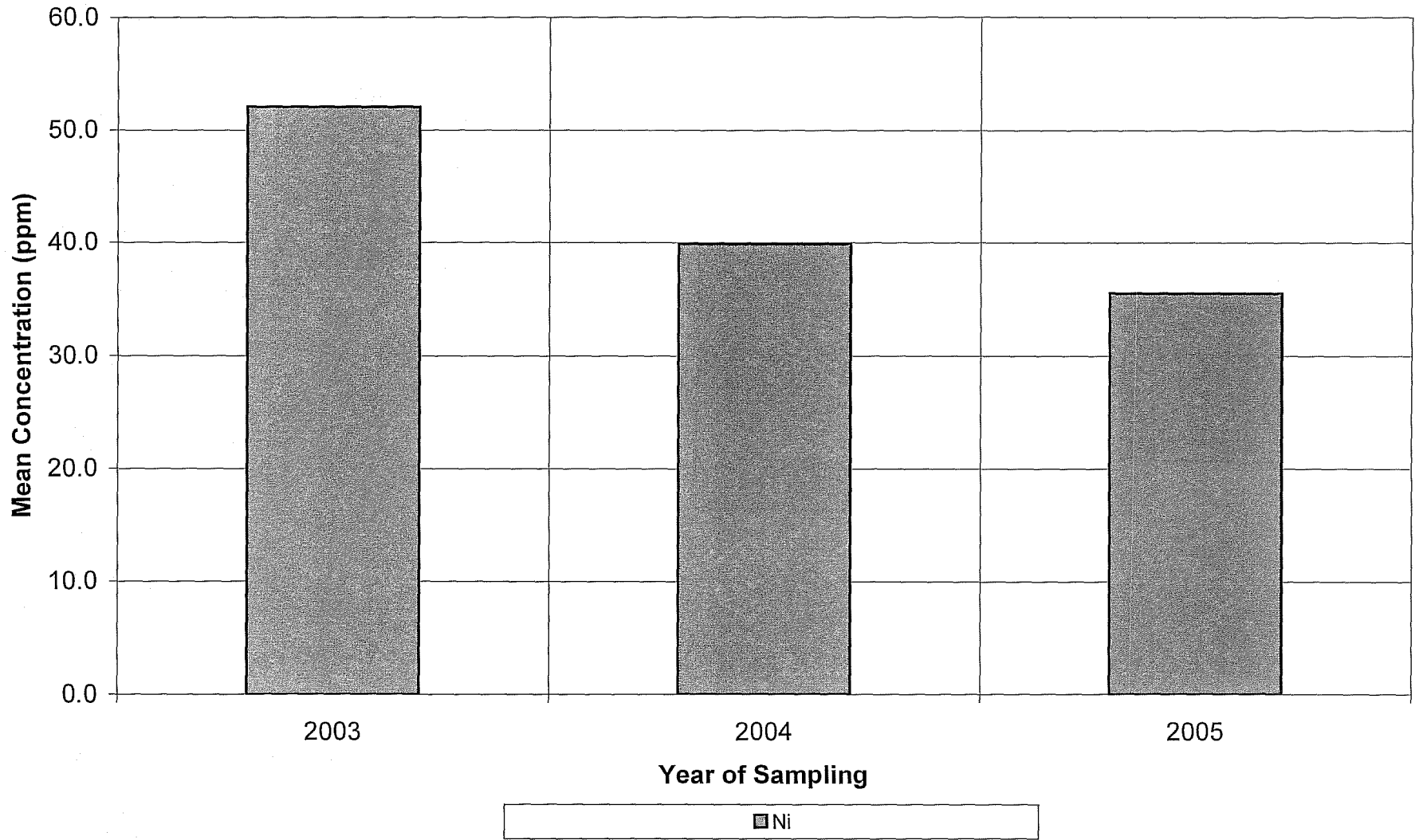
Stream Sediment Site W53
BC-53: Laura Creek 100m downstream of Ditch Road



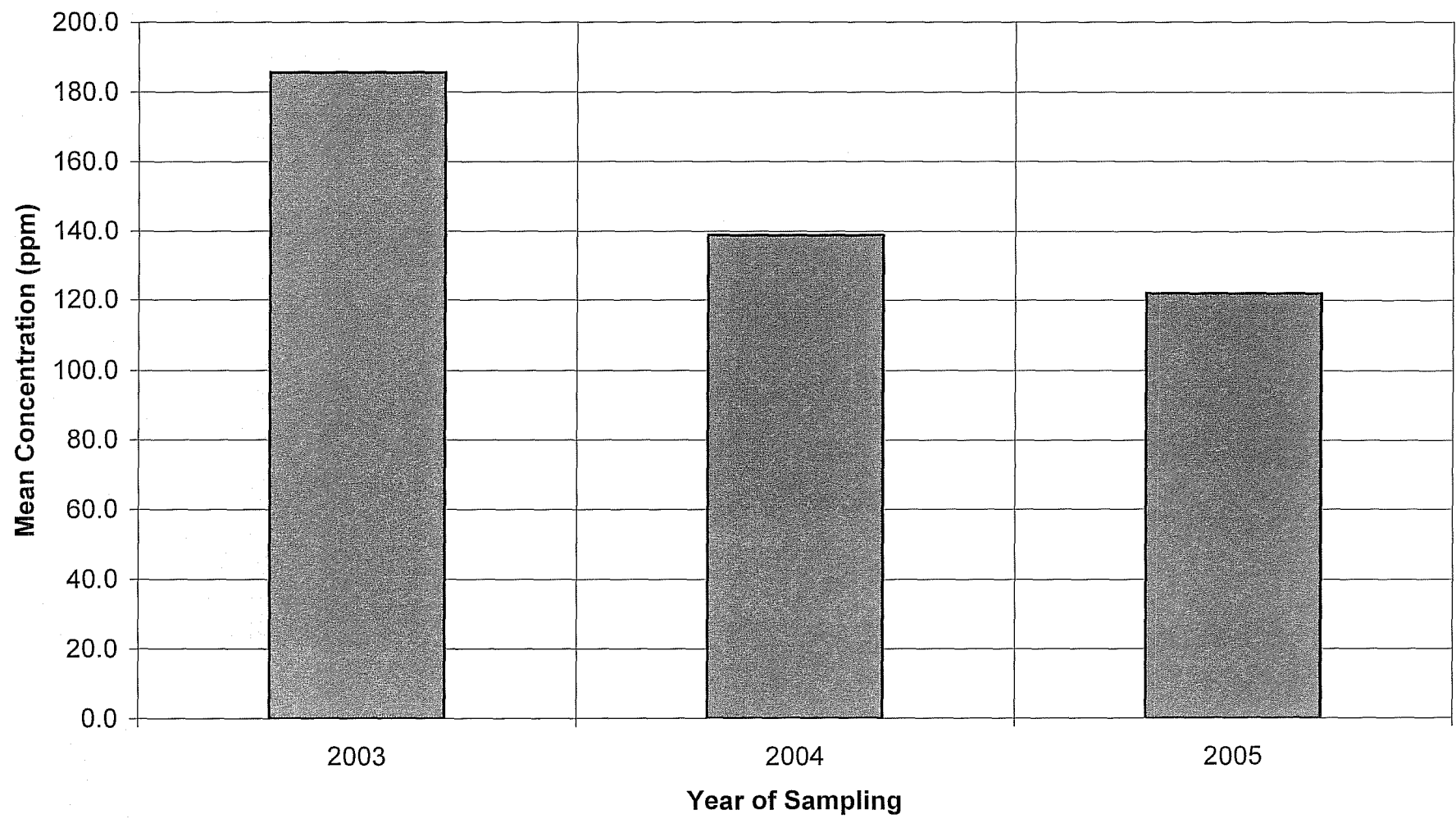
Stream Sediment Site W53
BC-53: Laura Creek 100m downstream of Ditch Road



Stream Sediment Site W53
BC-53: Laura Creek 100m downstream of Ditch Road



Stream Sediment Site W53
BC-53: Laura Creek 100m downstream of Ditch Road



■ Zn

Stream Sediment Analysis: HISTORICAL COMPARISON

Pacific Creek Monitoring Stations														
W11 BC-5														
		1991				1997	1998	1999	2000	2001	2002	2003	2004	2005
As	ppm	13.0				33.4	27.2	**	20.8	23.1	14.5	**	12.3	13.7
Sb	ppm	2.0				3.0	5.9	**	3.1	3.7	2.5	**	1.8	2.3
Cd	ppm	2.1				2.1	3.4	**	2.6	2.7	2.8	**	2.3	2.9
Cu	ppm	36.0				47.3	55.9	**	38.3	43.3	36.6	**	30.0	51.3
Hg	ppm	0.2				0.4	0.3	**	0.5	0.8	0.4	**	0.3	0.3
Mo	ppm	1.0				5.1	4.6	**	2.9	2.6	2.5	**	1.8	2.4
Pb	ppm	8.0				13.1	14.5	**	9.6	10.5	9.4	**	7.5	13.2
Ni	ppm	58.0				61.0	73.0	**	59.8	73.9	60.4	**	63.4	66.2
Zn	ppm	342.0				378.8	412.7	**	367.2	460.9	371.5	**	321.9	385.0

Pacific Creek Monitoring Stations													
W14 BC-35													
			1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
As	ppm		18.9	24.0	28.2	41.5	44.3	20.6	31.9	21.5	38.0	33.1	10.9
Sb	ppm		3.5	3.0	5.1	6.8	6.6	3.3	5.1	5.9	3.2	3.7	1.4
Cd	ppm		2.0	1.5	1.3	2.1	2.0	1.5	1.8	1.3	2.5	1.7	1.9
Cu	ppm		25.1	30.0	36.5	38.9	56.0	23.0	36.9	24.8	41.6	27.4	51.0
Hg	ppm		0.5	0.8	0.8	1.0	1.4	0.9	0.9	0.6	0.7	0.5	0.2
Mo	ppm		4.0	1.0	2.3	2.7	2.3	1.4	2.0	1.5	2.2	1.9	4.3
Pb	ppm		10.0	8.0	9.6	9.4	11.0	6.2	9.3	7.4	10.1	8.0	11.1
Ni	ppm		46.0	59.0	71.0	75.0	72.0	44.1	68.9	47.7	78.8	77.9	45.6
Zn	ppm		241.7	351.0	371.2	410.6	445.0	240.0	365.2	270.3	453.1	421.6	263.0

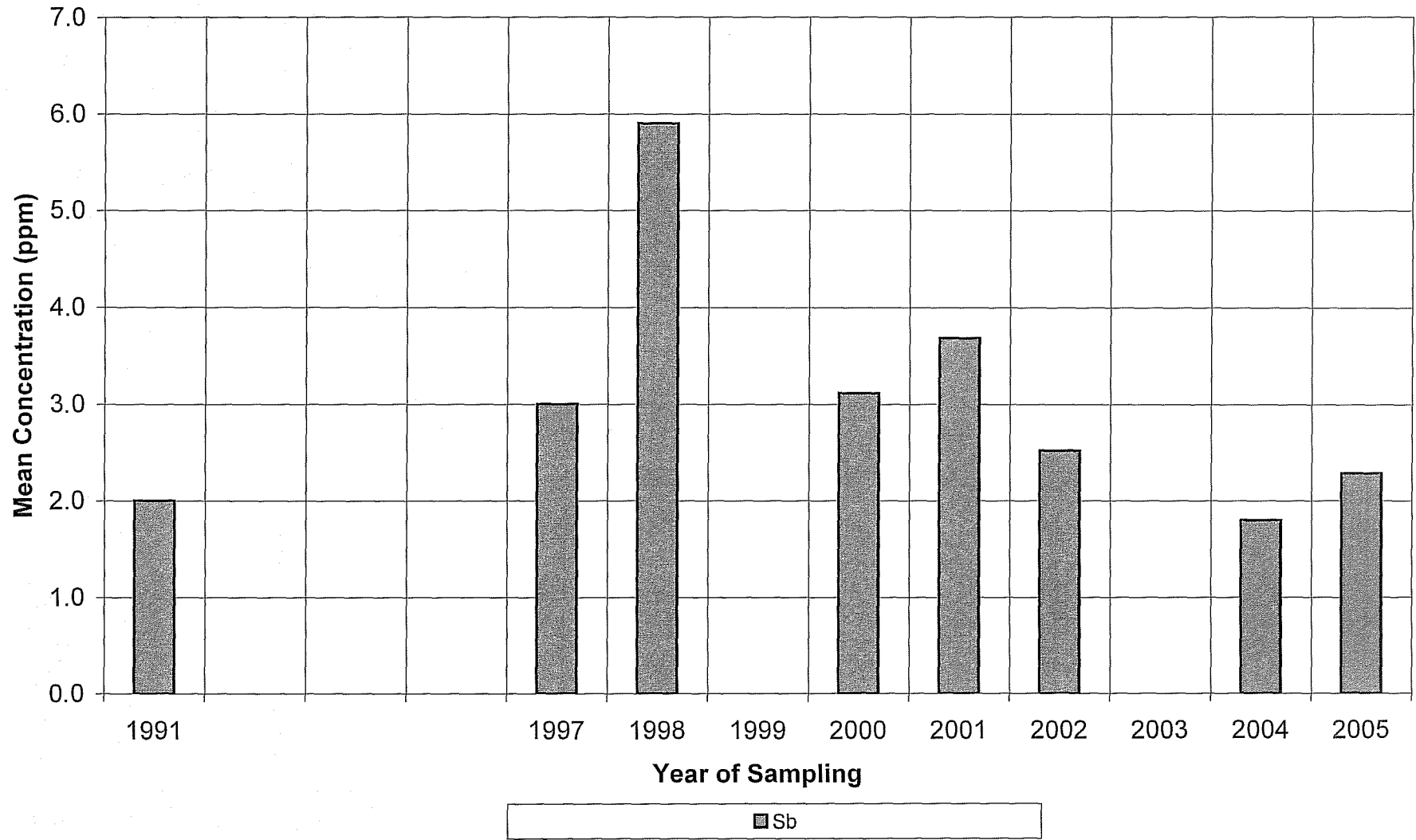
Lee Creek Monitoring Stations														
W06A BC-33														
		1991	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
As	ppm	15.0	8.0	6.3	10.0	10.7	13.2	12.2	17.1	12.8	7.5	11.5	6.9	9.0
Sb	ppm	2.0	8.0	2.3	2.0	2.8	3.6	2.8	3.2	2.5	1.5	1.2	0.9	1.4
Cd	ppm	3.0	2.9	2.4	2.7	2.1	2.8	2.1	1.8	2.2	1.7	1.9	2.3	2.6
Cu	ppm	81.0	59.4	51.8	64.0	61.2	60.5	82.7	32.7	63.4	45.1	58.3	54.8	53.0
Hg	ppm	0.2	0.0	0.2	0.3	0.3	0.2	0.2	0.4	0.3	0.2	0.2	0.3	0.2
Mo	ppm	6.0	8.3	4.0	5.0	6.0	6.0	5.7	2.5	5.7	3.9	4.3	4.1	3.9
Pb	ppm	14.0	9.0	10.0	13.0	12.7	11.3	9.0	7.7	11.2	8.8	11.5	11.8	12.1
Ni	ppm	82.0	59.3	59.8	72.0	68.0	70.0	67.0	48.9	70.5	49.5	65.8	68.5	58.6
Zn	ppm	518.0	400.3	384.7	472.0	416.2	411.9	447.0	290.1	447.9	325.4	431.2	305.0	335.0

Lee Creek Monitoring Stations														
W07 BC-34														
		1991	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
As	ppm	12.0	8.0	8.0	10.0	9.4	10.2	**	9.1	11.9	7.5	11.8	8.0	9.2
Sb	ppm	2.0	8.0	2.8	2.0	2.6	3.2	**	2.9	2.4	1.6	1.2	1.8	2.7
Cd	ppm	3.2	3.2	2.6	4.2	2.3	2.6	**	1.8	2.1	1.8	1.9	2.8	2.0
Cu	ppm	70.0	66.0	67.5	76.0	66.9	55.3	**	50.3	57.4	44.2	54.7	49.7	48.2
Hg	ppm	0.2	0.0	0.3	0.3	0.3	0.2	**	0.2	0.3	0.2	0.2	0.3	0.2
Mo	ppm	6.0	9.3	4.0	5.0	6.1	5.5	**	4.9	4.9	3.8	4.2	3.9	3.7
Pb	ppm	12.0	10.0	10.0	12.0	13.5	10.1	**	10.7	10.8	8.6	14.4	9.5	11.3
Ni	ppm	81.0	71.3	63.5	85.0	74.0	69.0	**	60.3	67.4	51.7	67.3	75.7	61.2
Zn	ppm	497.0	437.3	397.3	508.0	456.1	402.9	**	344.5	434.9	315.3	427.5	370.9	353.0

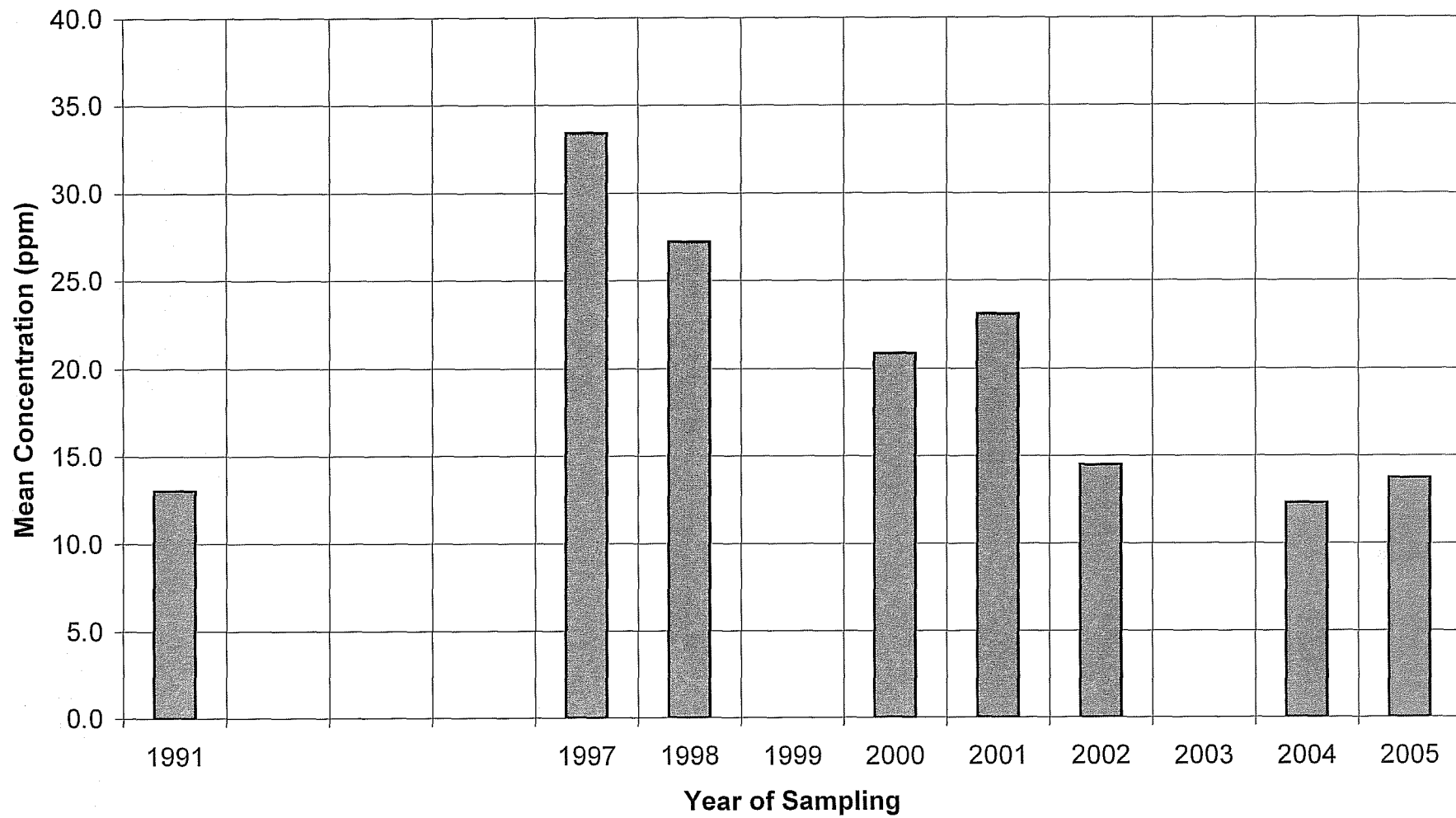
* all values represent mean of replicate samples

** Sites not sampled this year

Stream Sediment Site W11
BC-05: Pacific Creek up from Confluence with Lee Creek

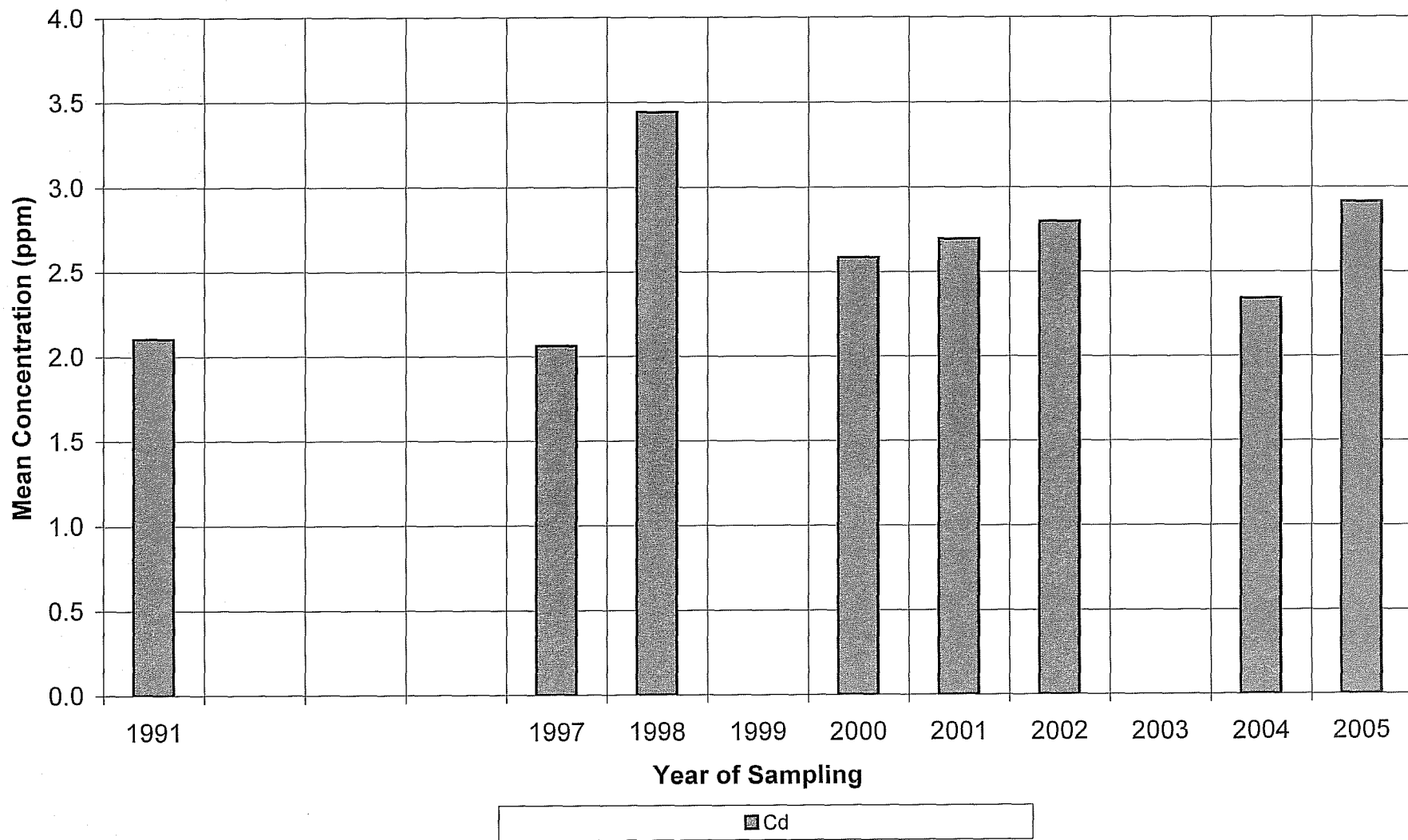


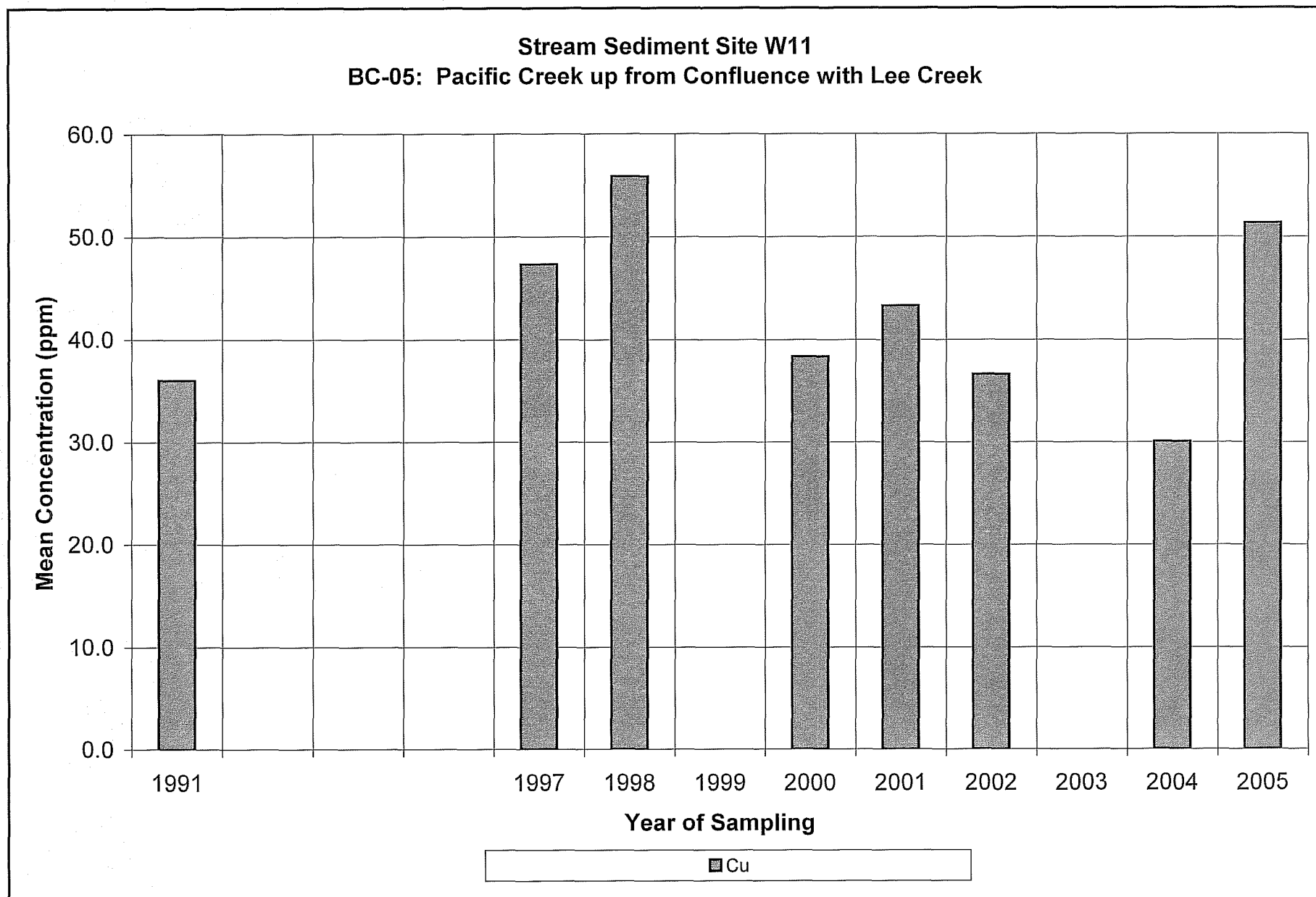
Stream Sediment Site W11
BC-05: Pacific Creek up from Confluence with Lee Creek



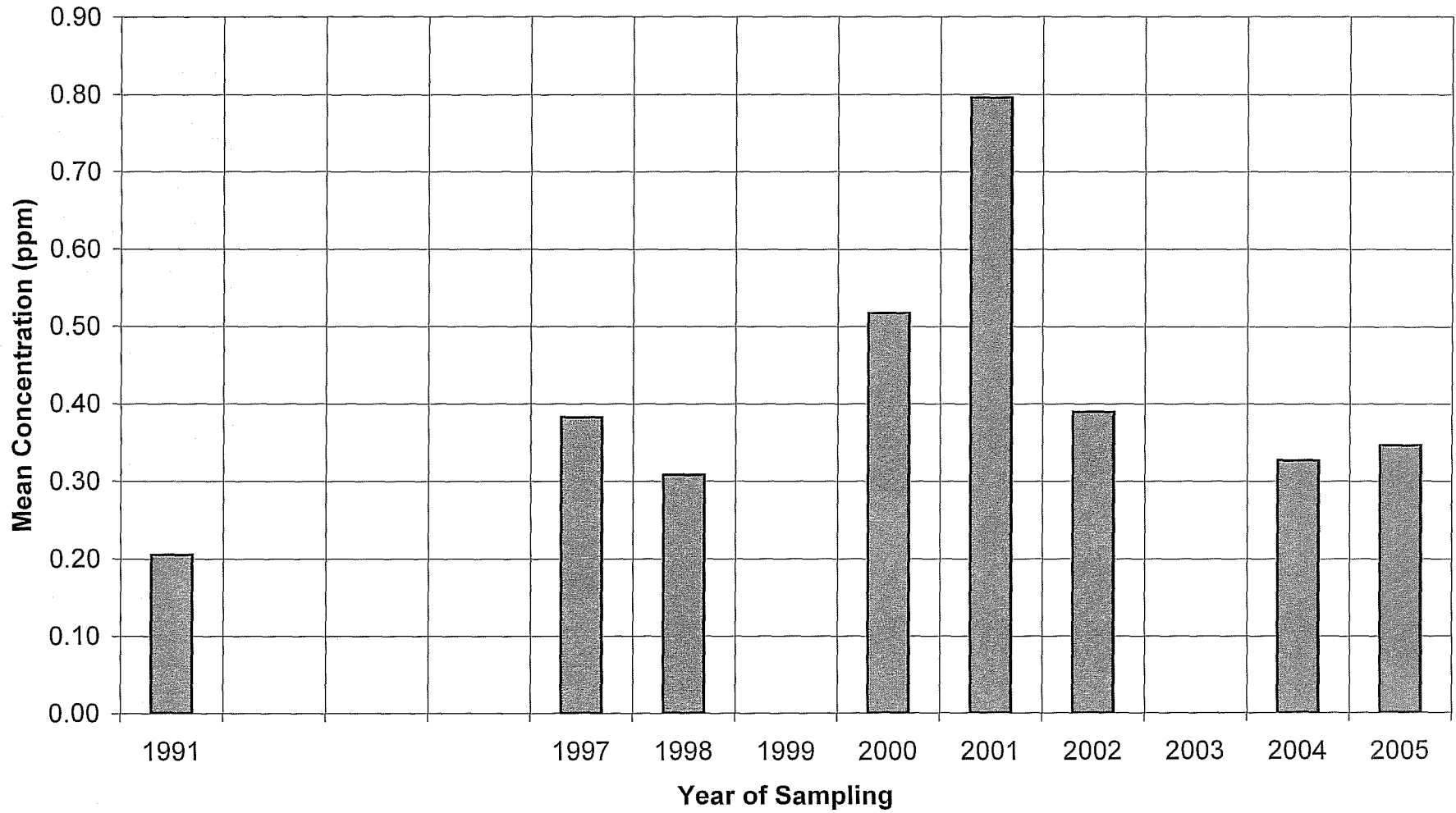
■ As

Stream Sediment Site W11
BC-05: Pacific Creek up from Confluence with Lee Creek



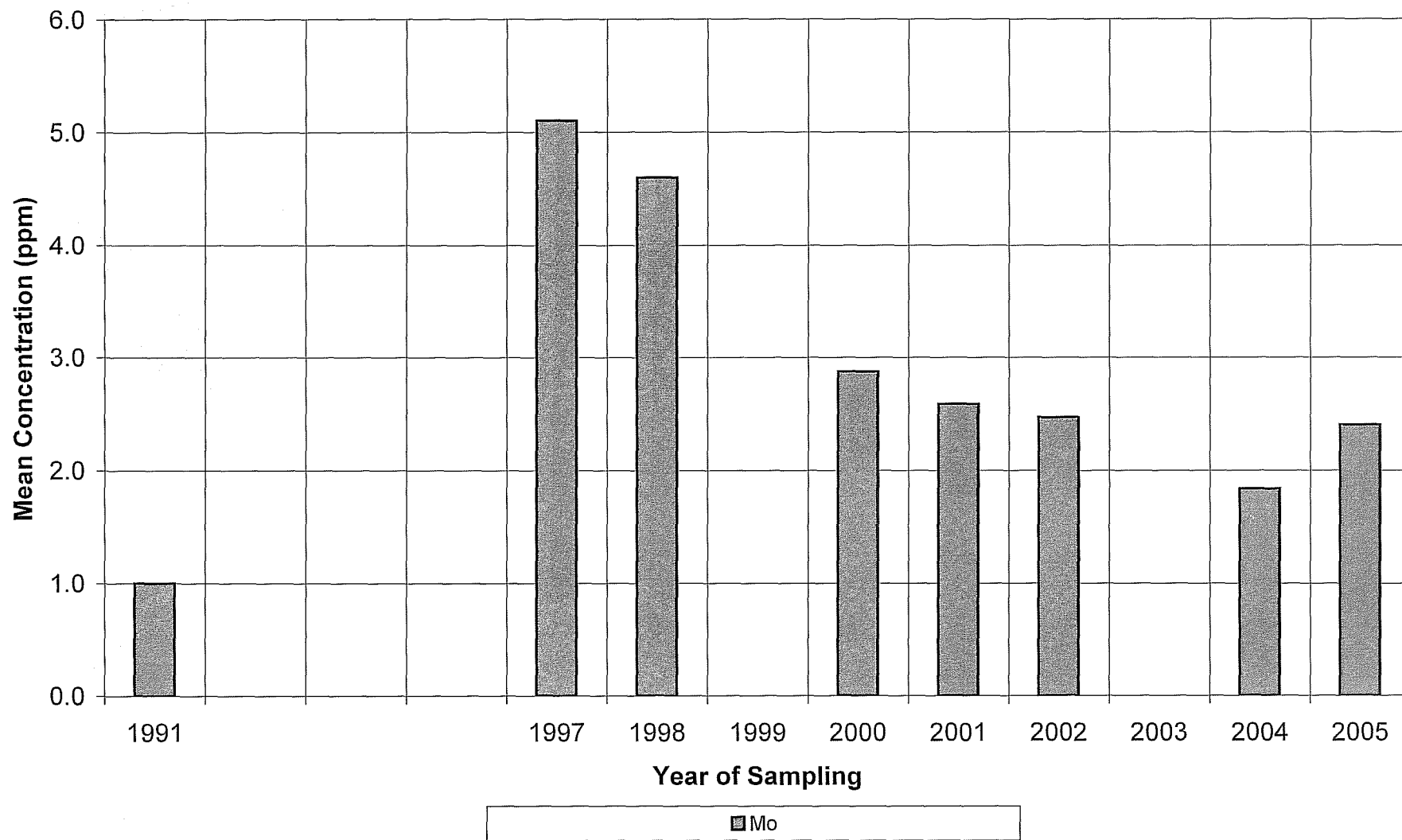


Stream Sediment Site W11
BC-05: Pacific Creek up from Confluence with Lee Creek

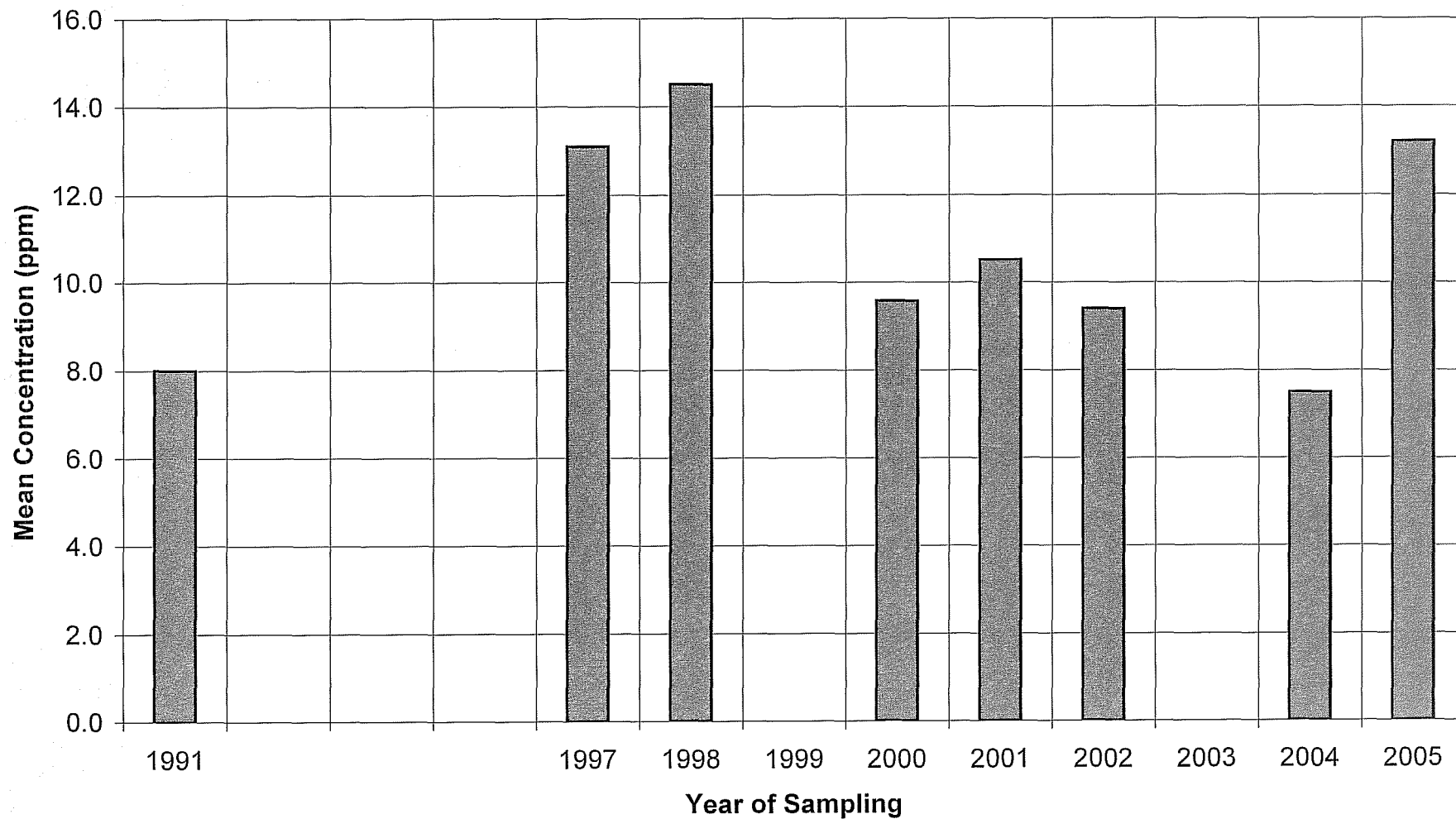


Hg

Stream Sediment Site W11
BC-05: Pacific Creek up from Confluence with Lee Creek

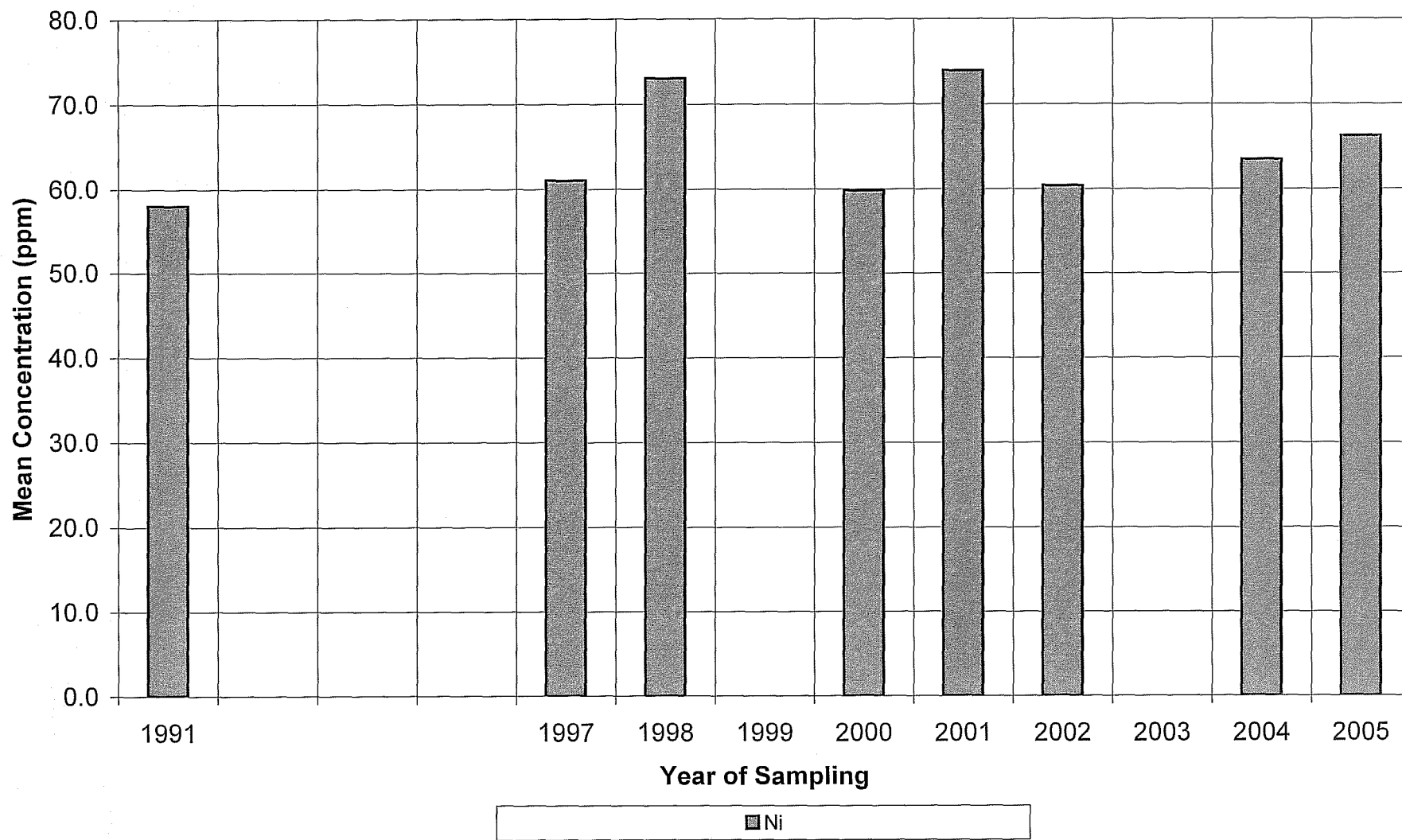


Stream Sediment Site W11
BC-05: Pacific Creek up from Confluence with Lee Creek

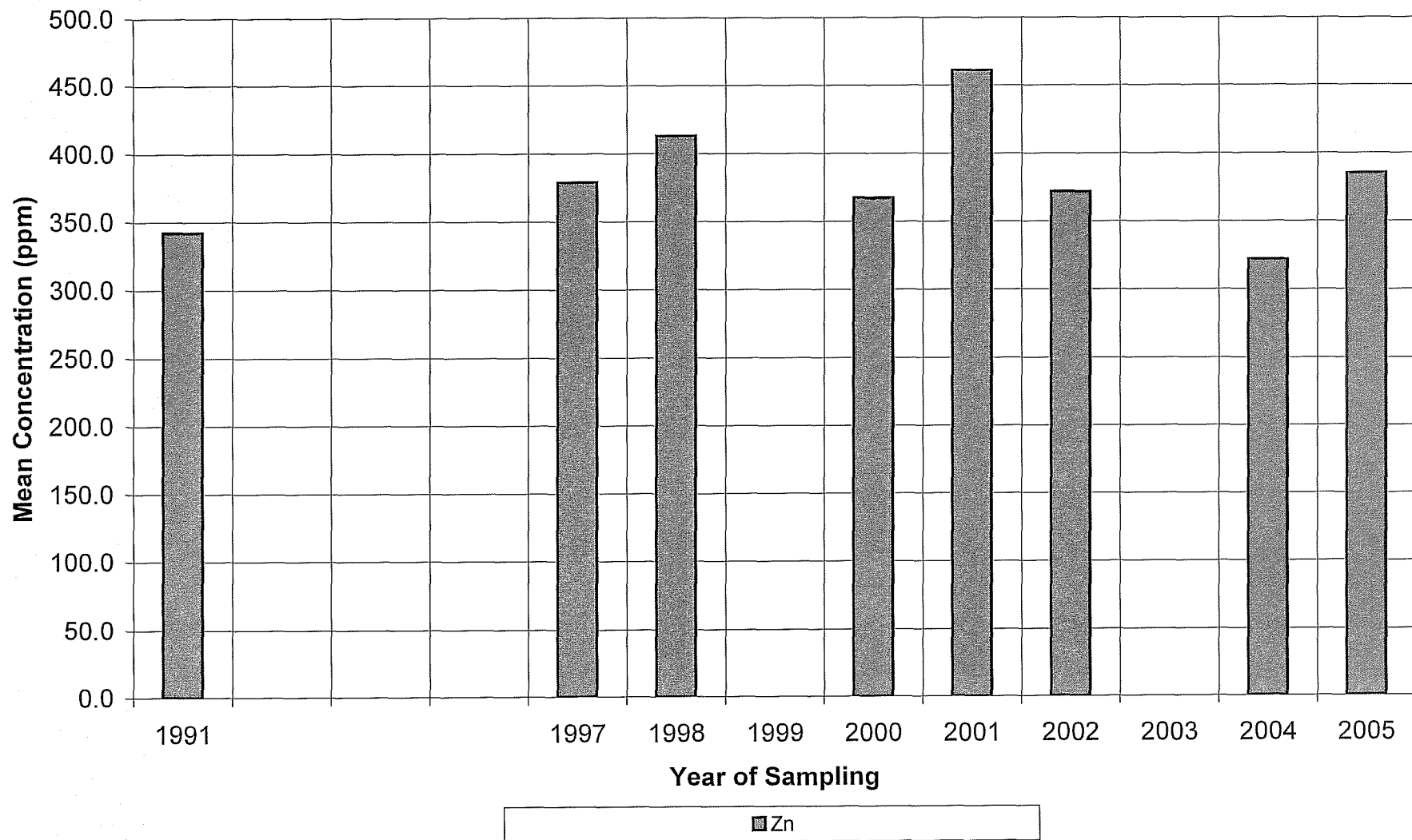


■ Pb

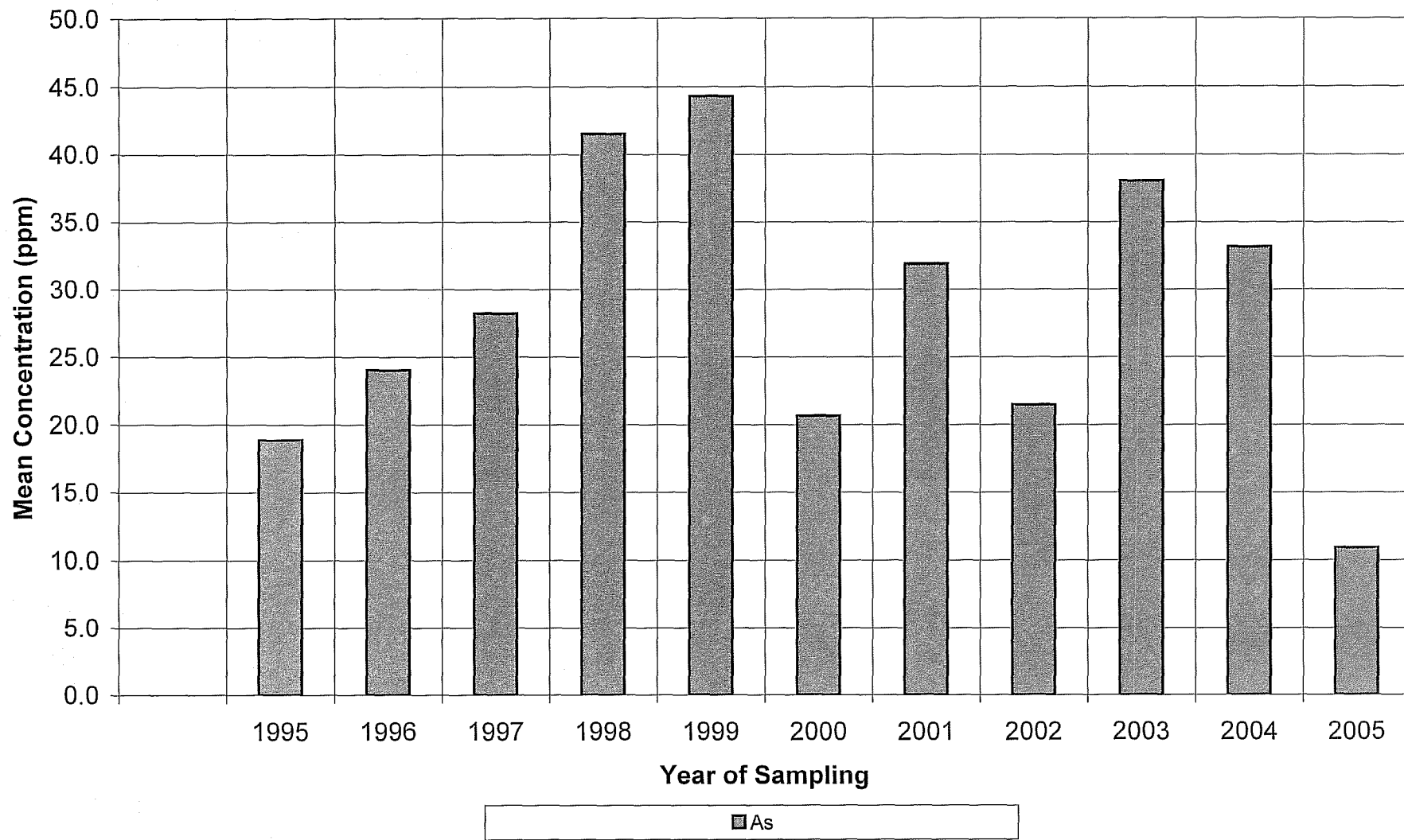
Stream Sediment Site W11
BC-05: Pacific Creek up from Confluence with Lee Creek



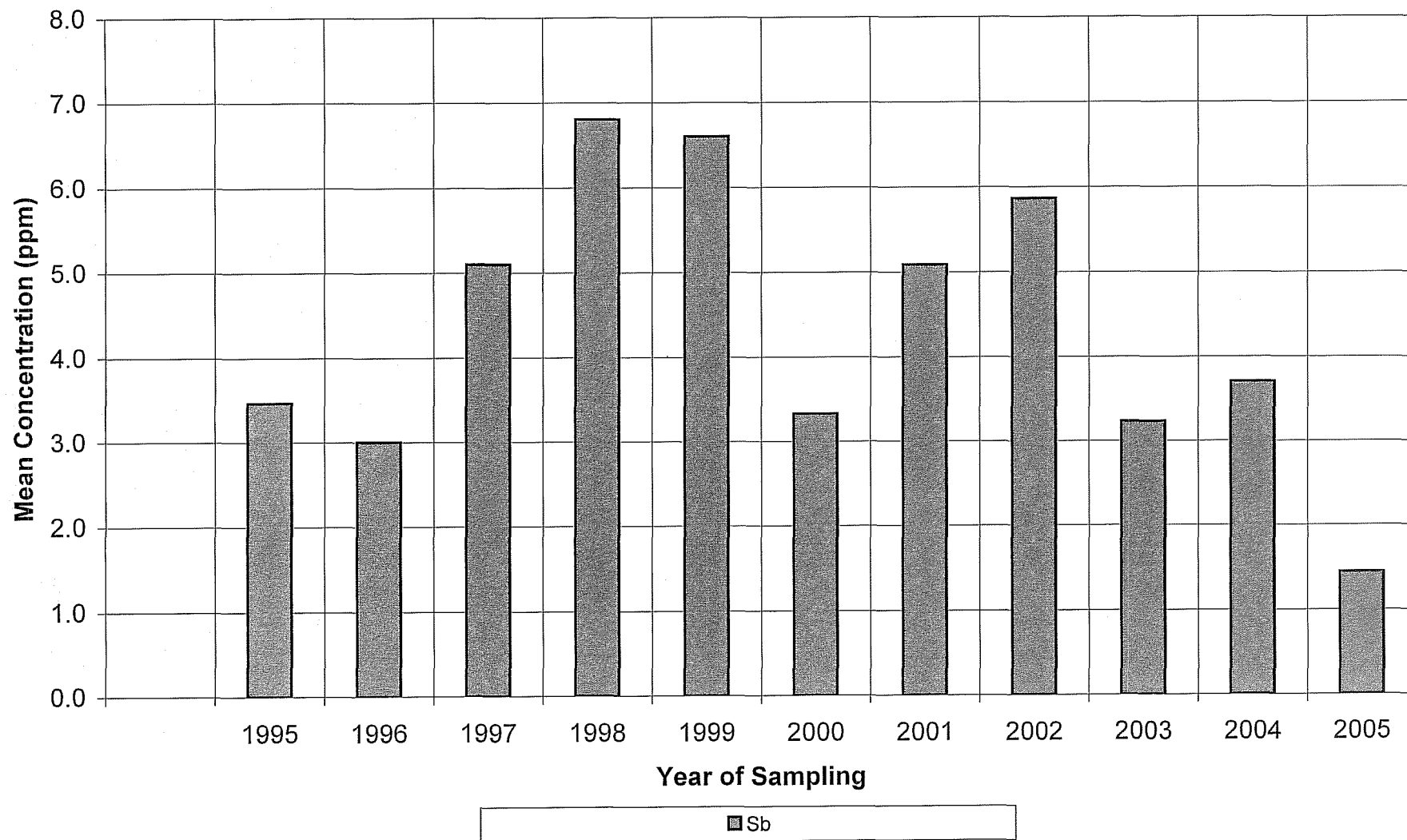
Stream Sediment Site W11
BC-05: Pacific Creek up from Confluence with Lee Creek



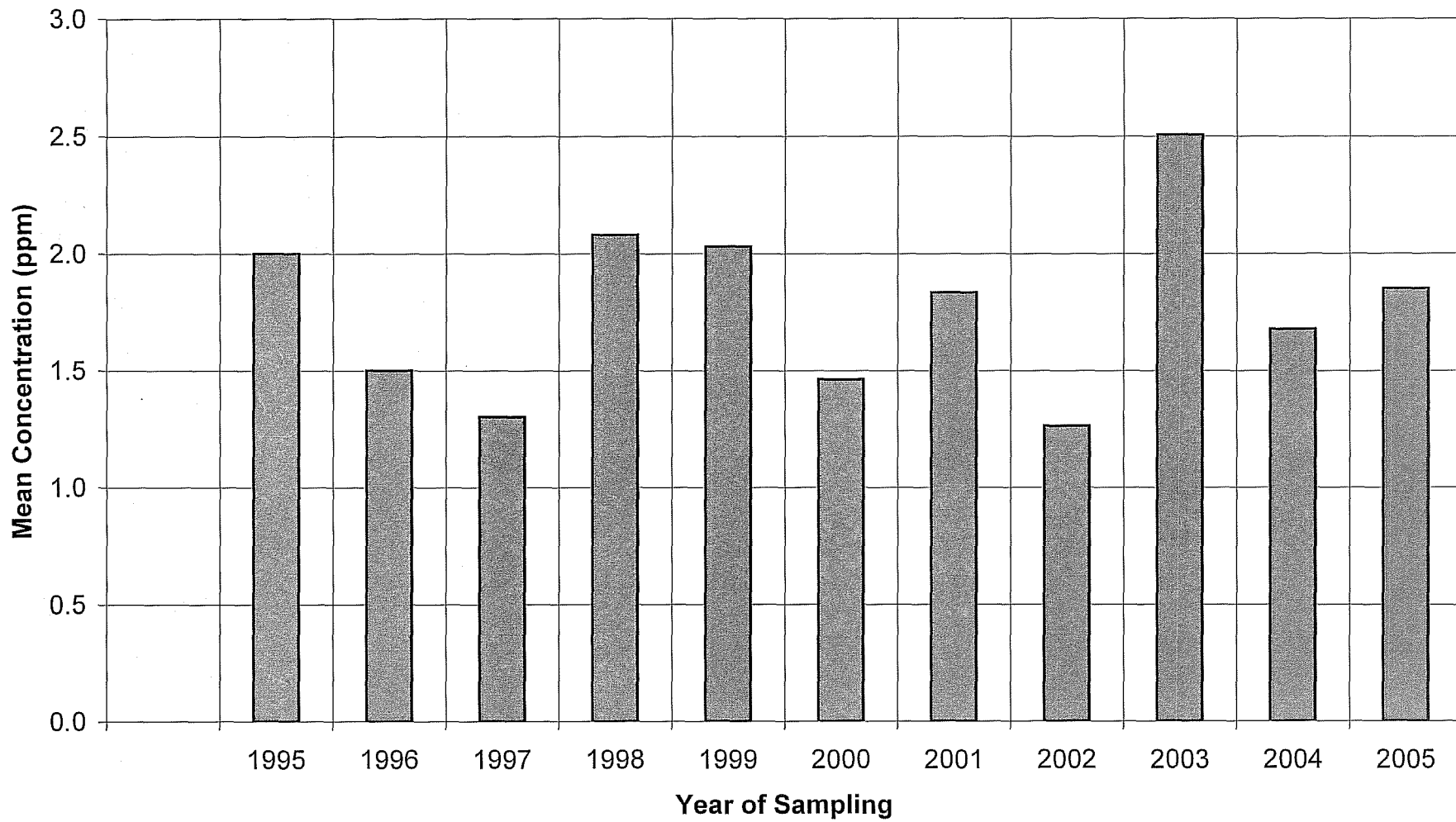
Stream Sediment Site W14
BC-35: Pacific Creek Below Heap Leach Pad



Stream Sediment Site W14
BC-35: Pacific Creek Below Heap Leach Pad

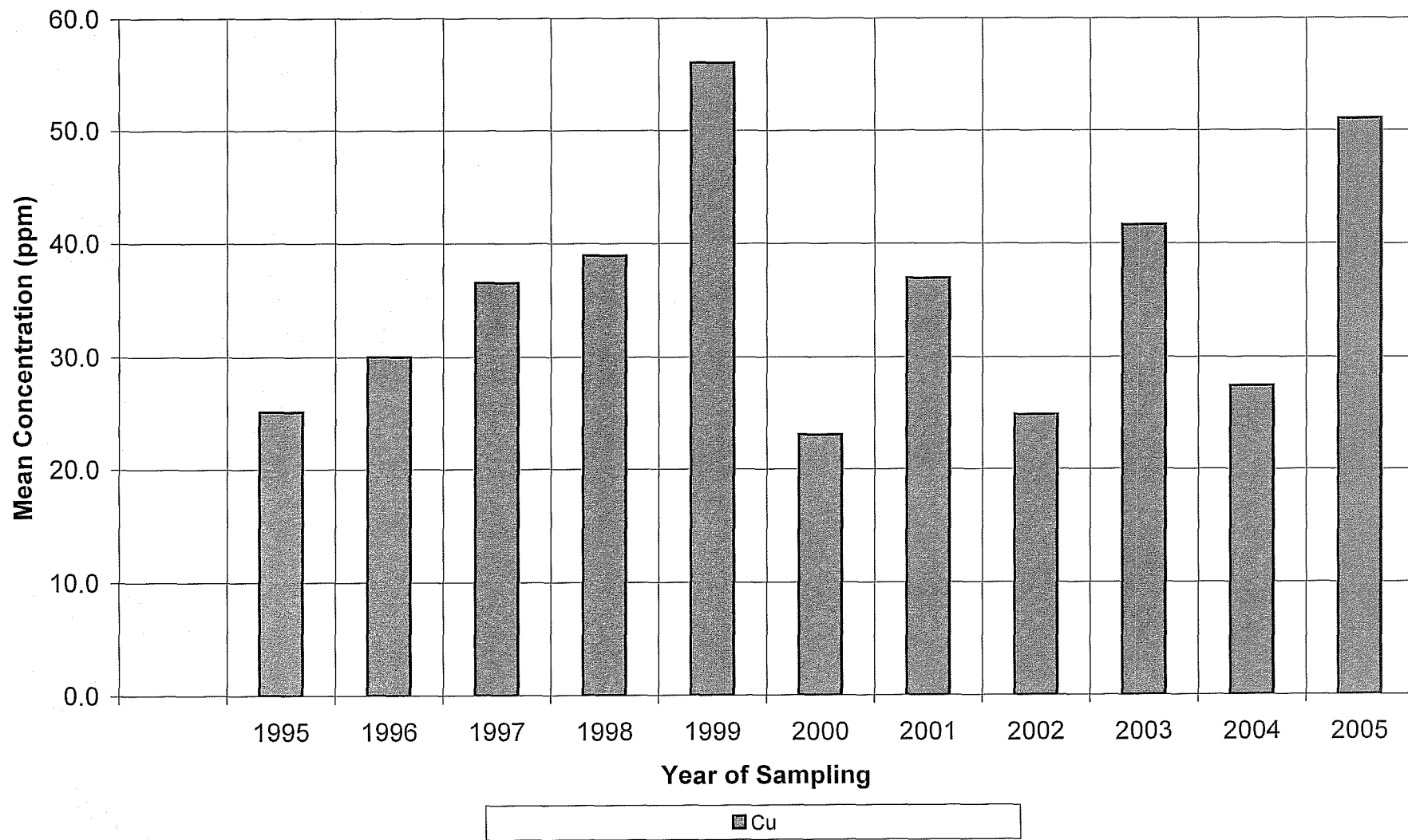


Stream Sediment Site W14
BC-35: Pacific Creek Below Heap Leach Pad

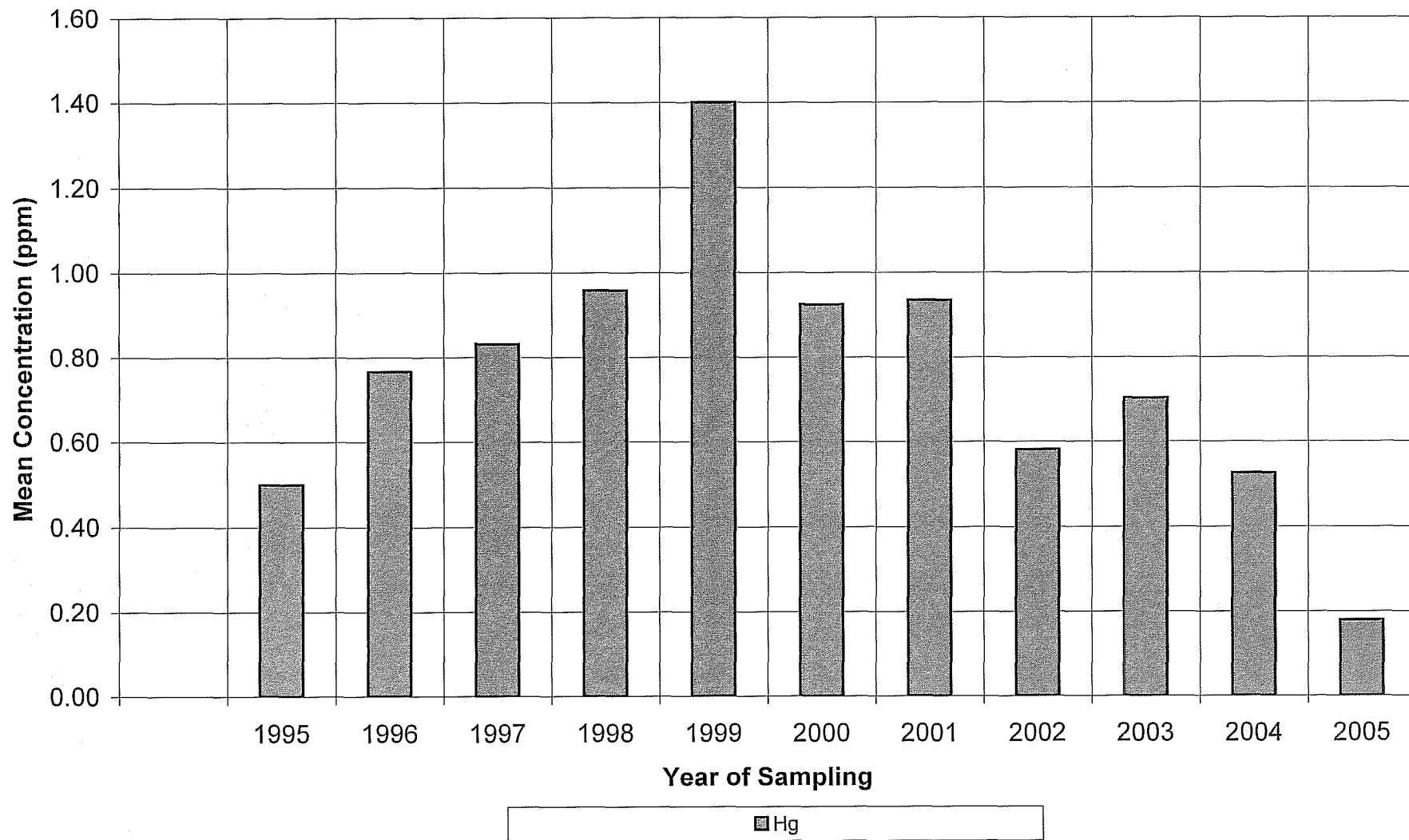


■ Cd

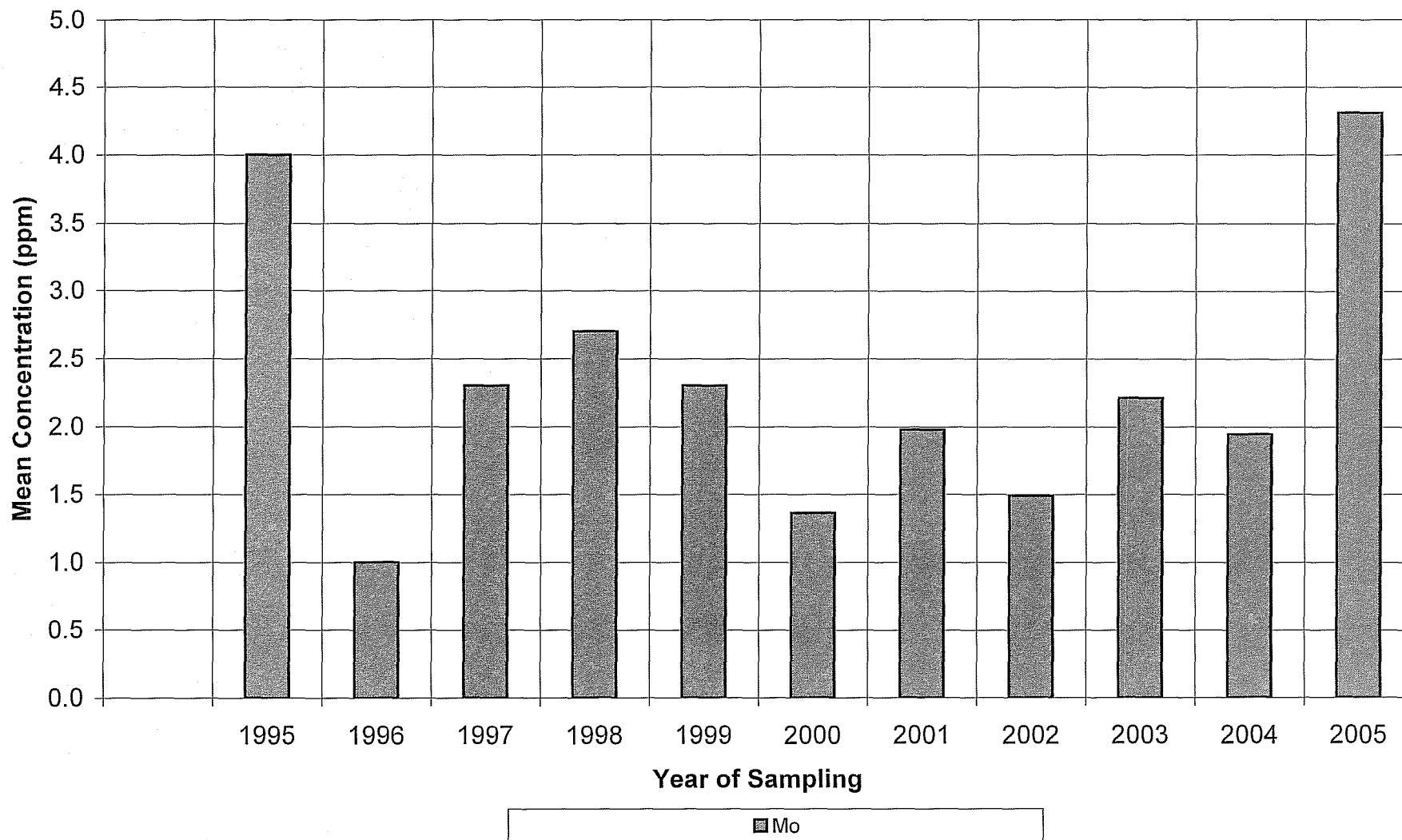
Stream Sediment Site W14
BC-35: Pacific Creek Below Heap Leach Pad

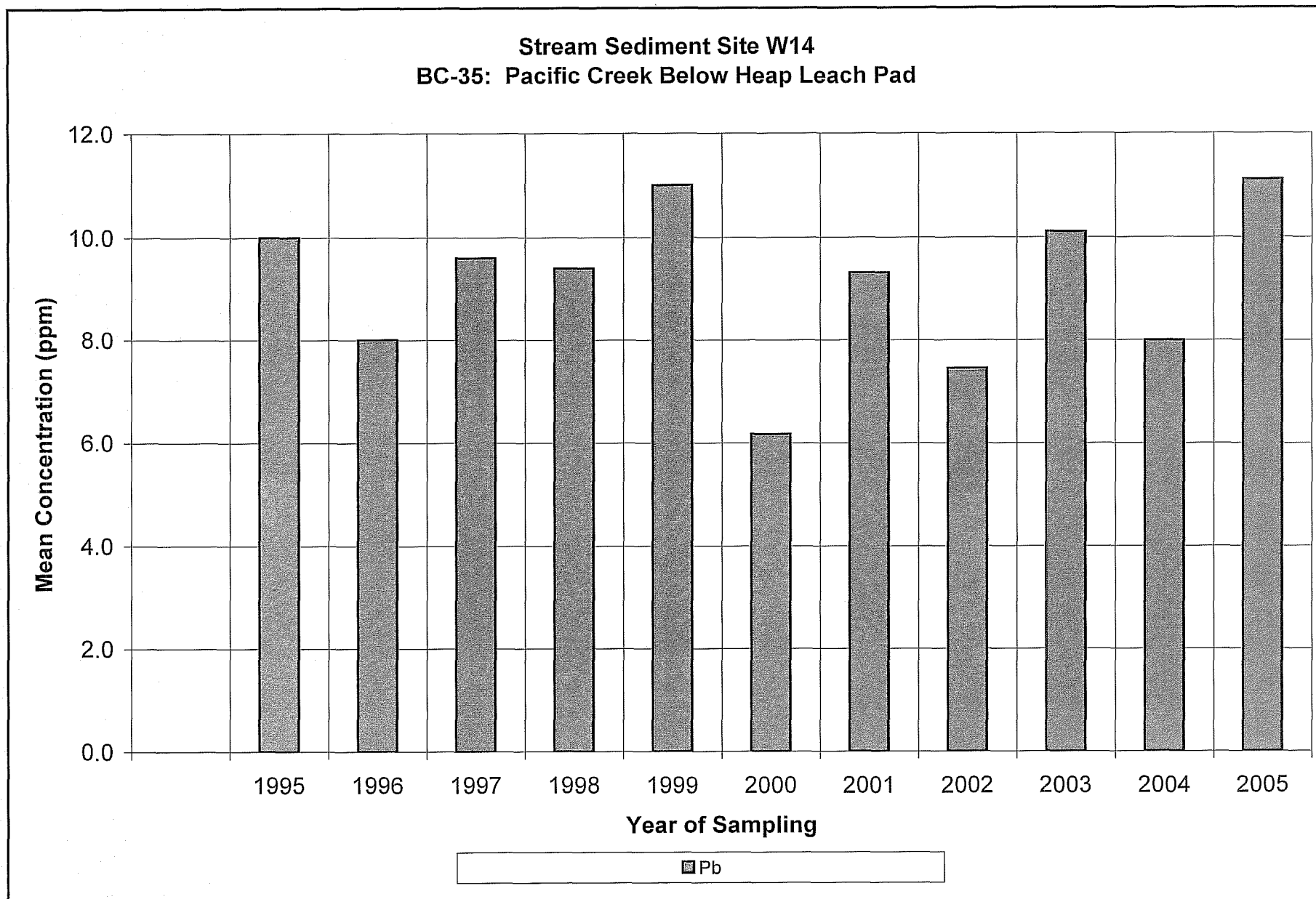


Stream Sediment Site W14
BC-35: Pacific Creek Below Heap Leach Pad

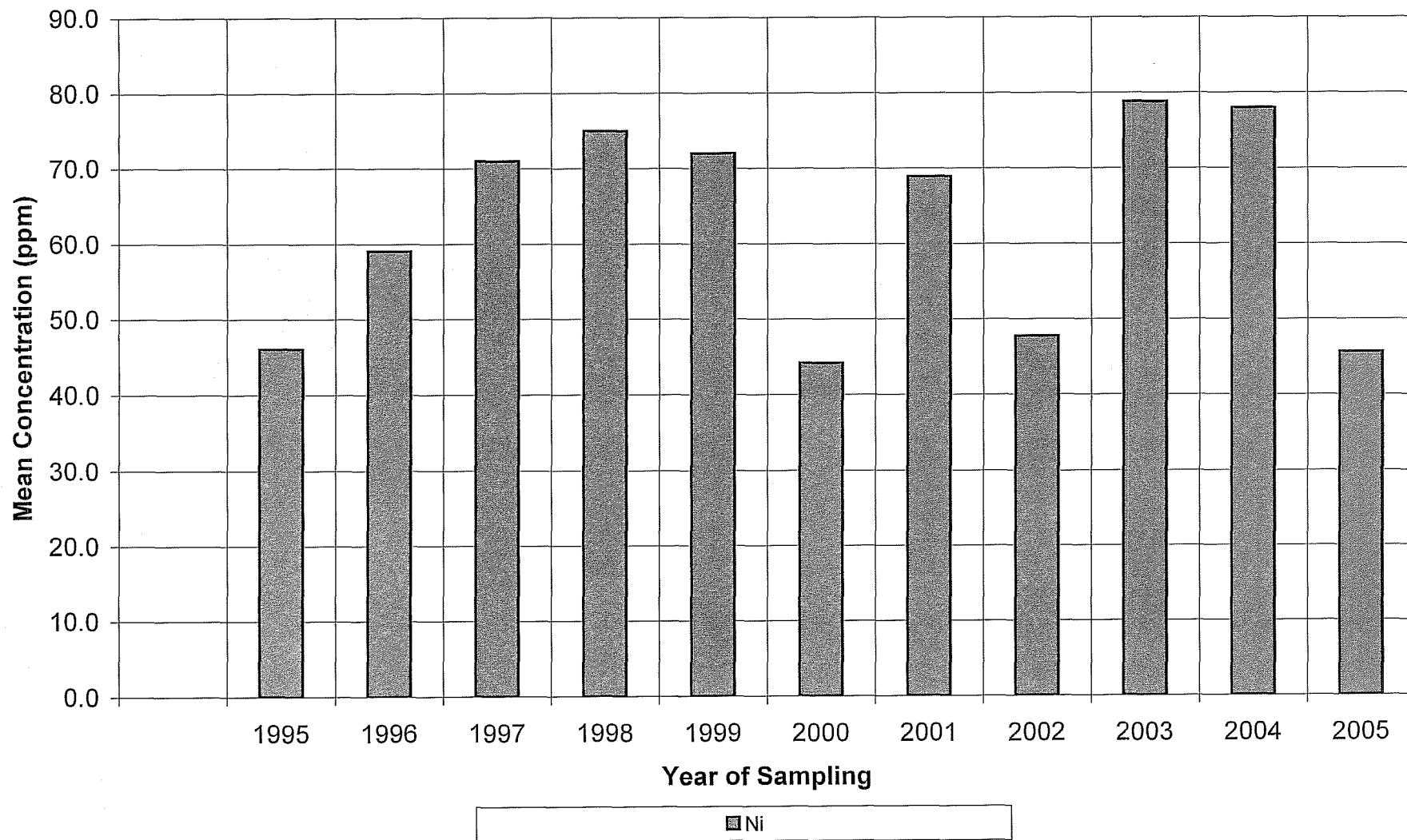


Stream Sediment Site W14
BC-35: Pacific Creek Below Heap Leach Pad

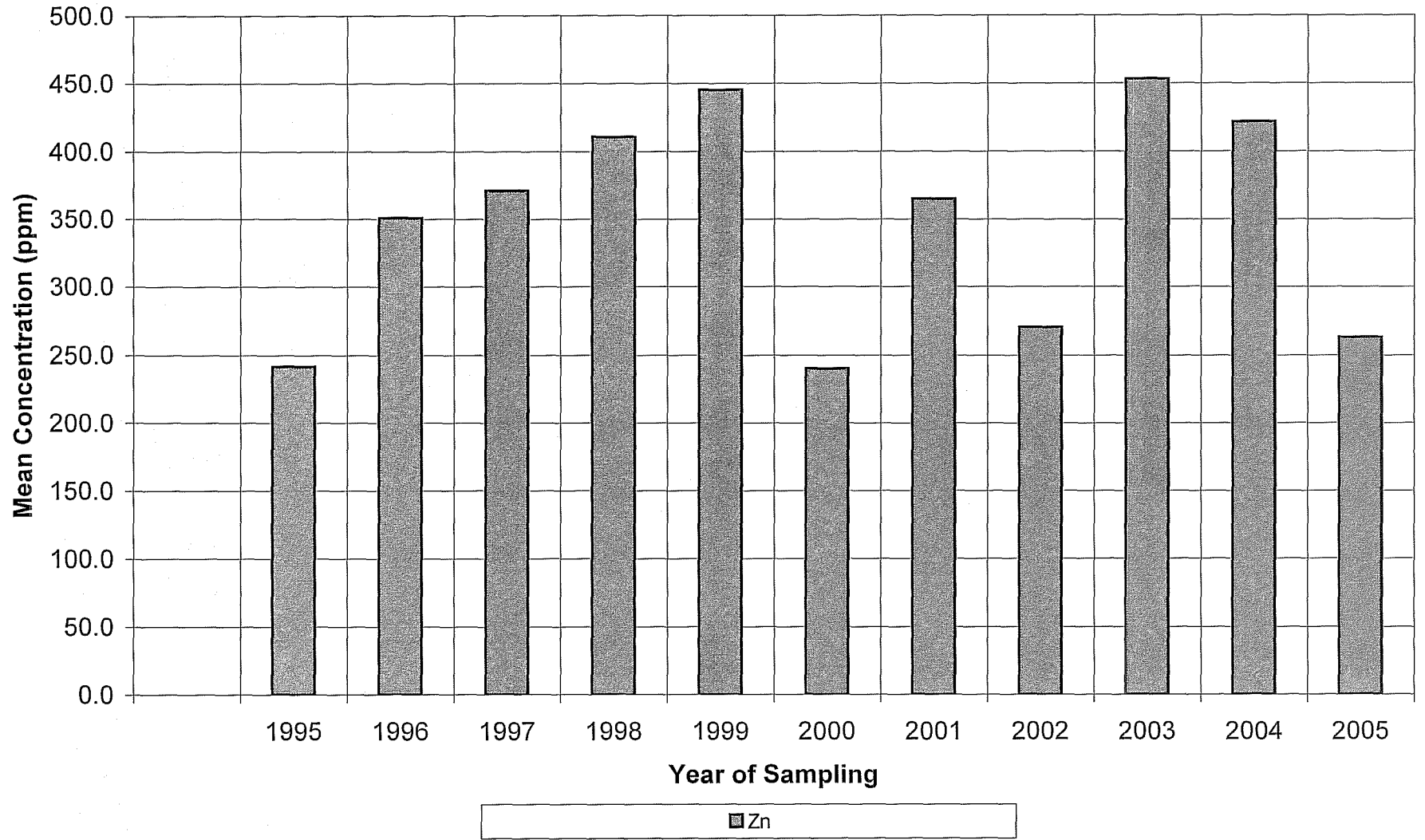




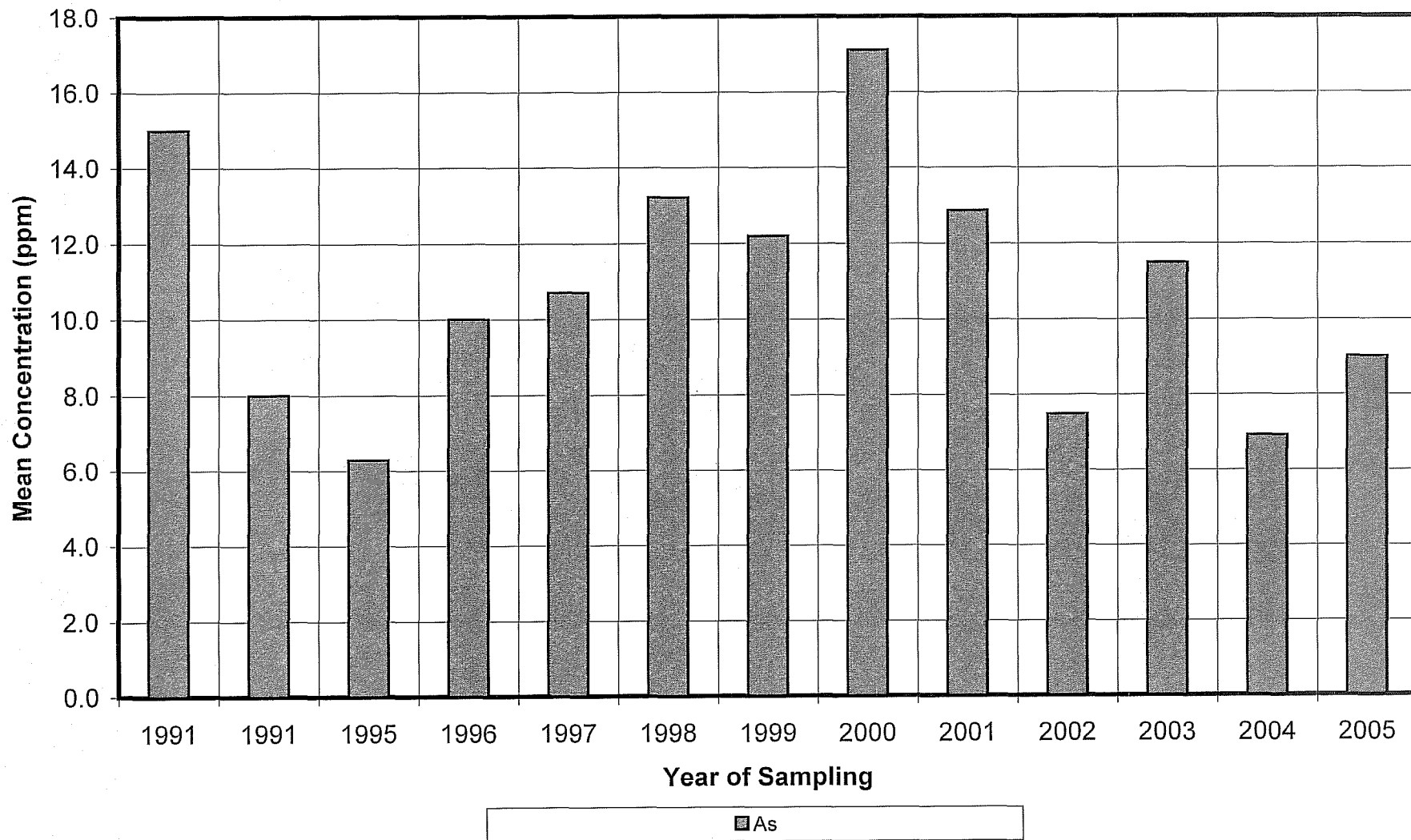
Stream Sediment Site W14
BC-35: Pacific Creek Below Heap Leach Pad



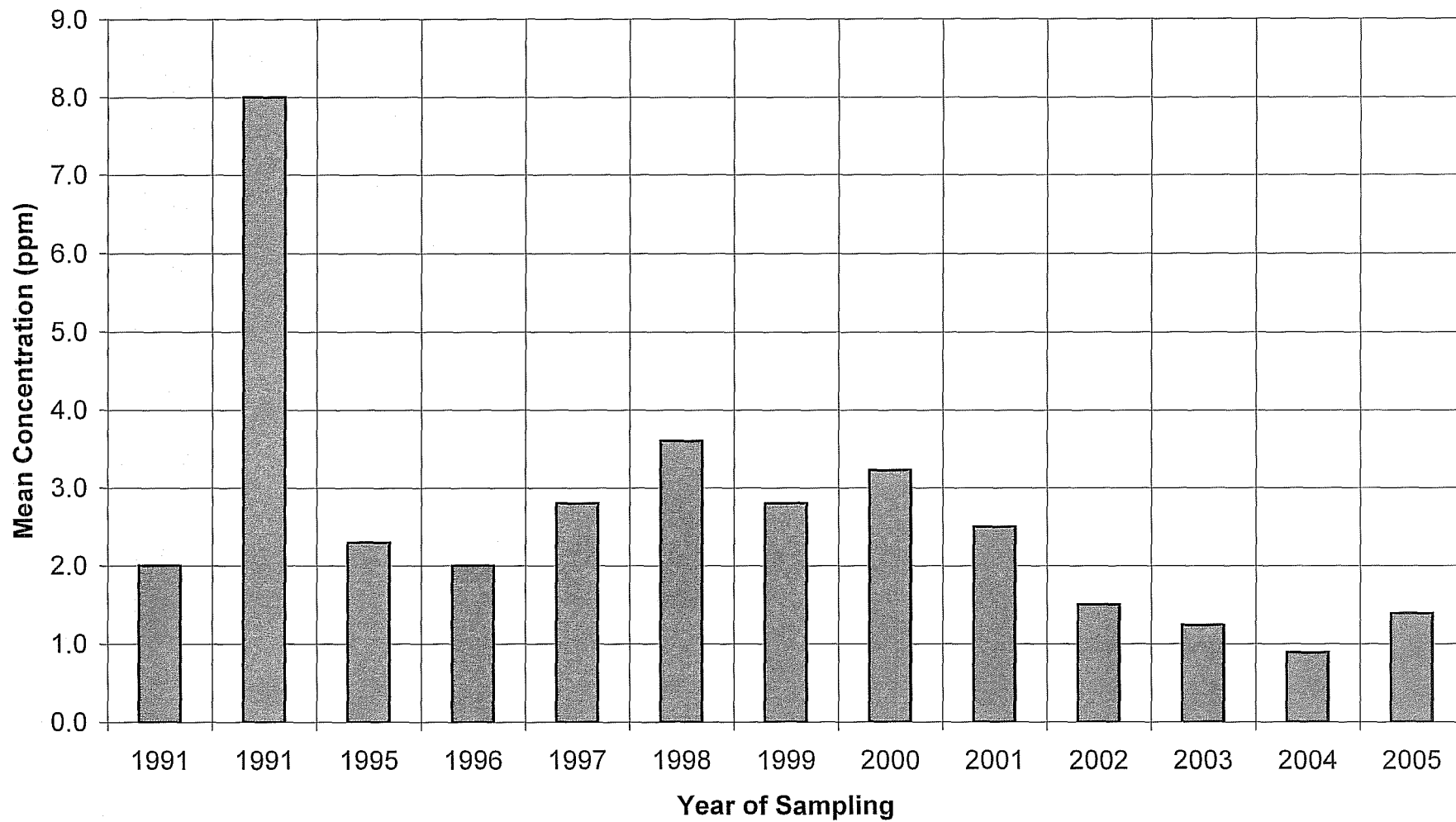
**Stream Sediment Site W14
BC-35: Pacific Creek Below Heap Leach Pad**



Stream Sediment Site W06A
BC-33: Lee Creek Above Pacific Creek

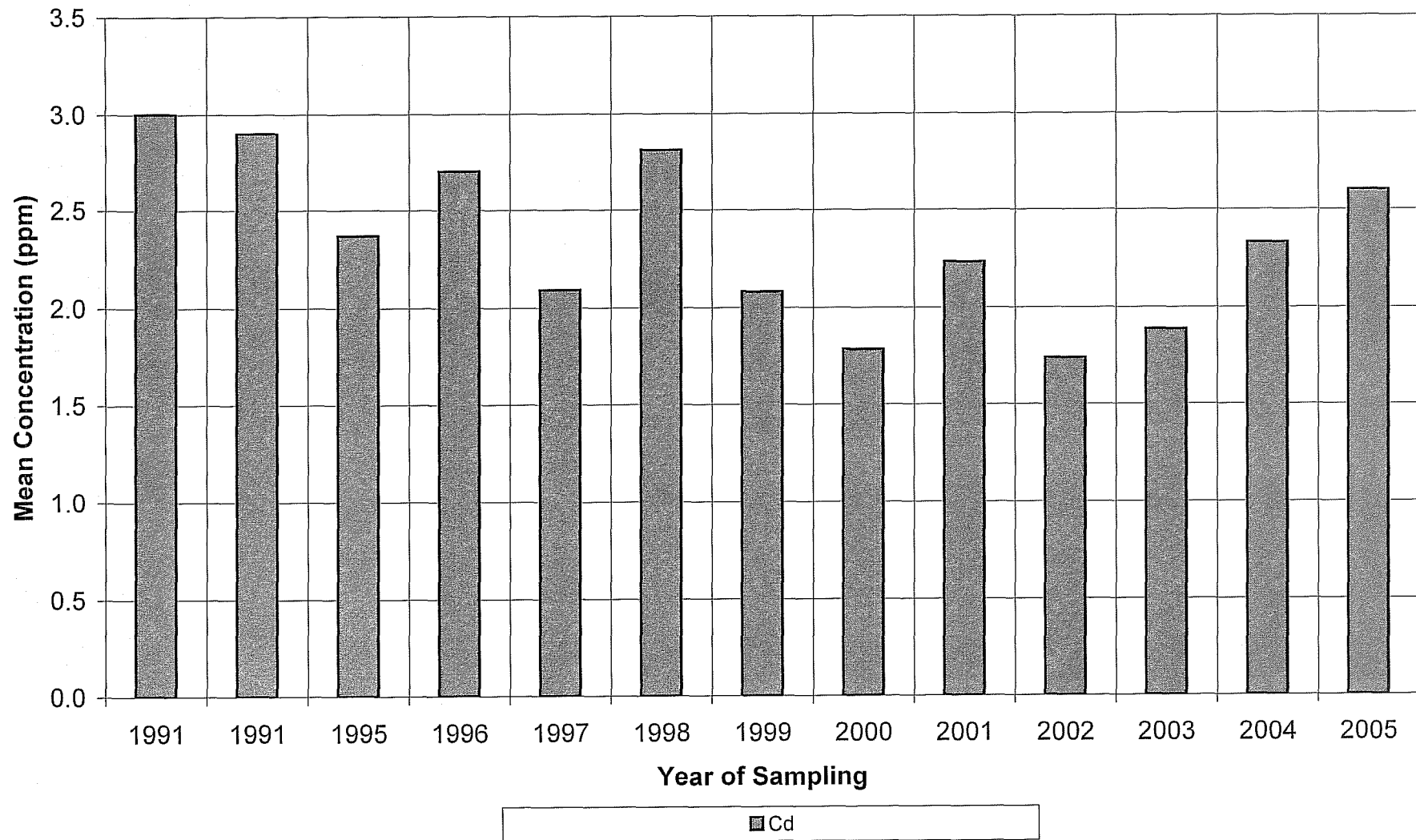


Stream Sediment Site W06A
BC-33: Lee Creek Above Pacific Creek

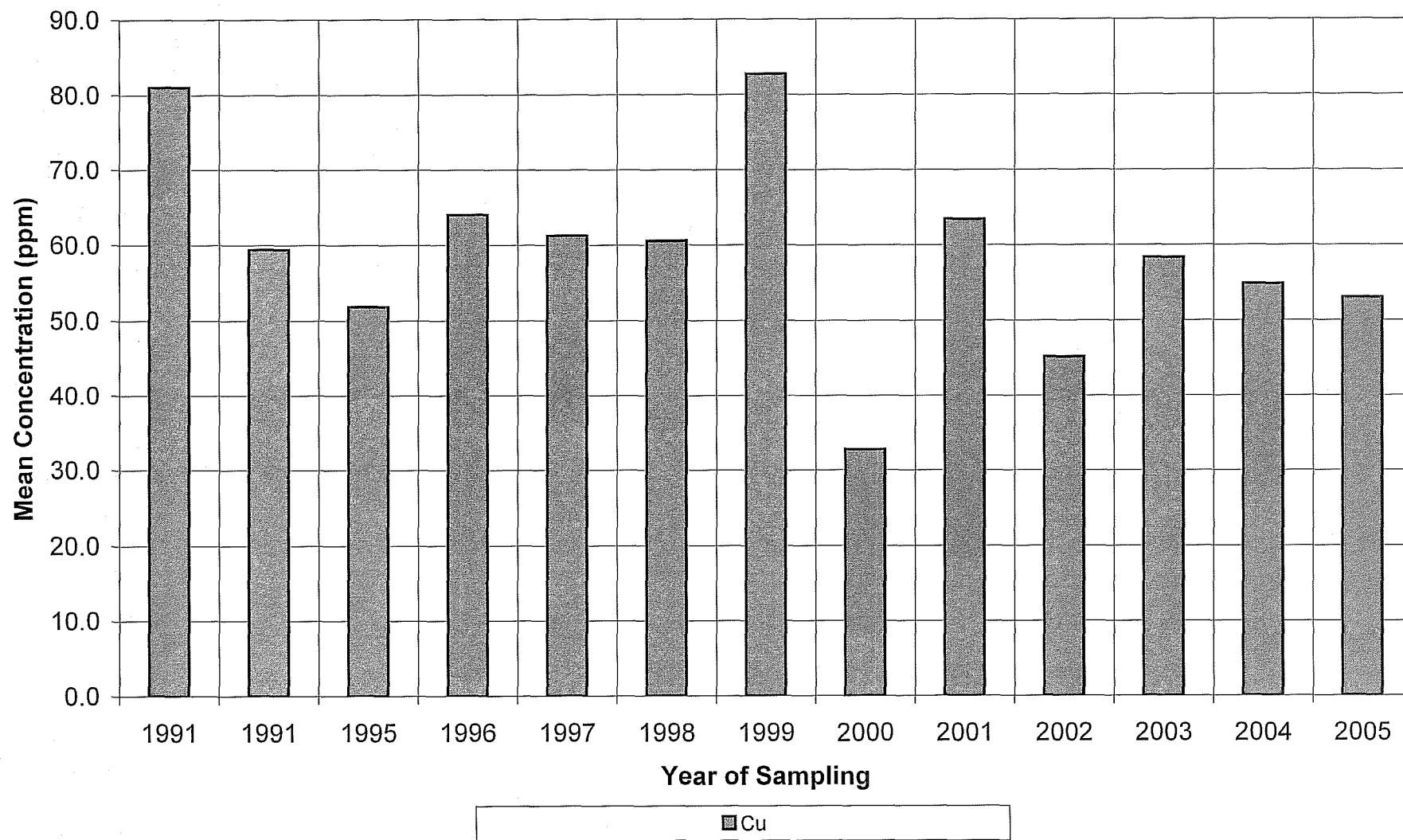


Sb

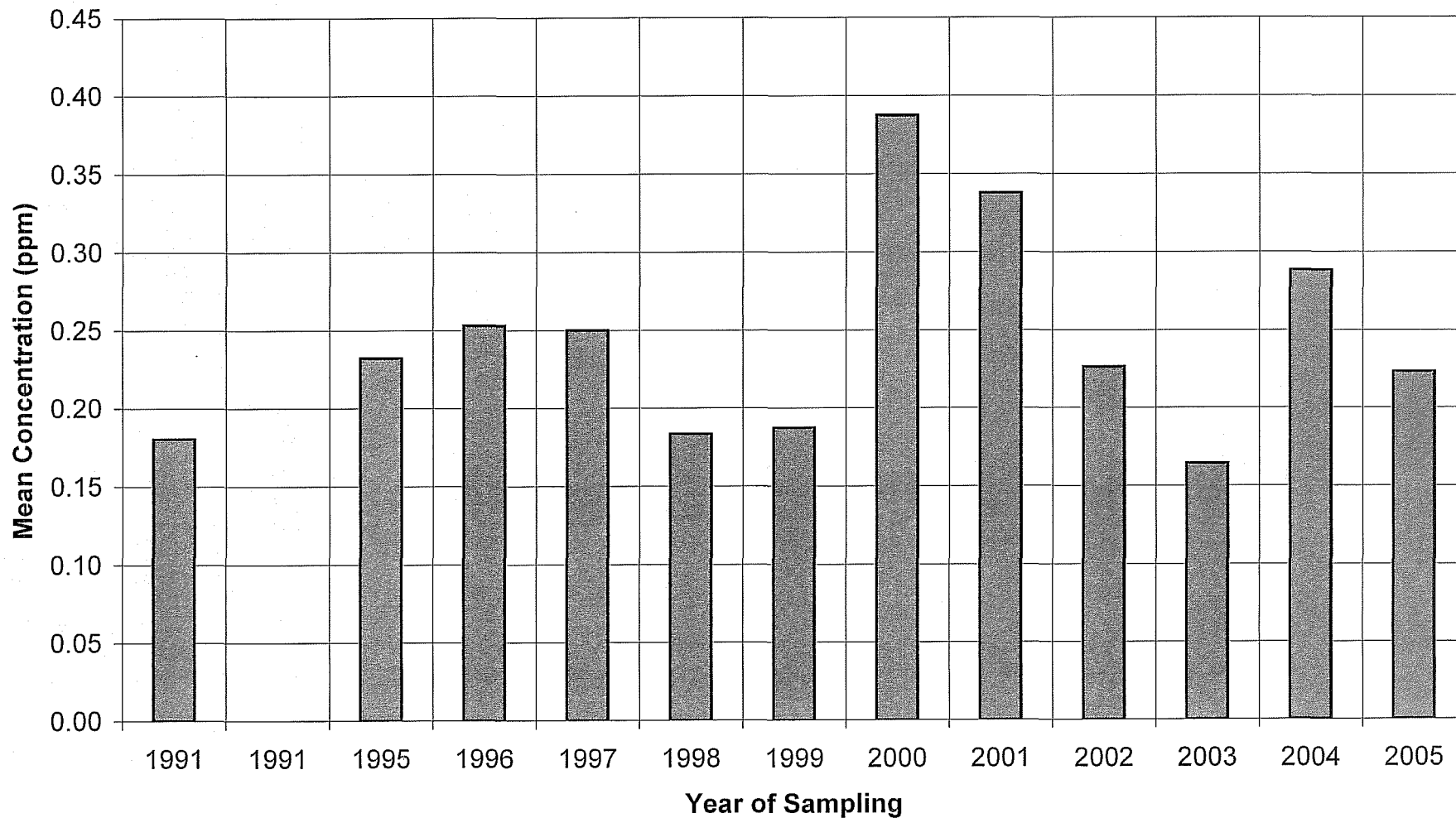
Stream Sediment Site W06A
BC-33: Lee Creek Above Pacific Creek



Stream Sediment Site W06A
BC-33: Lee Creek Above Pacific Creek

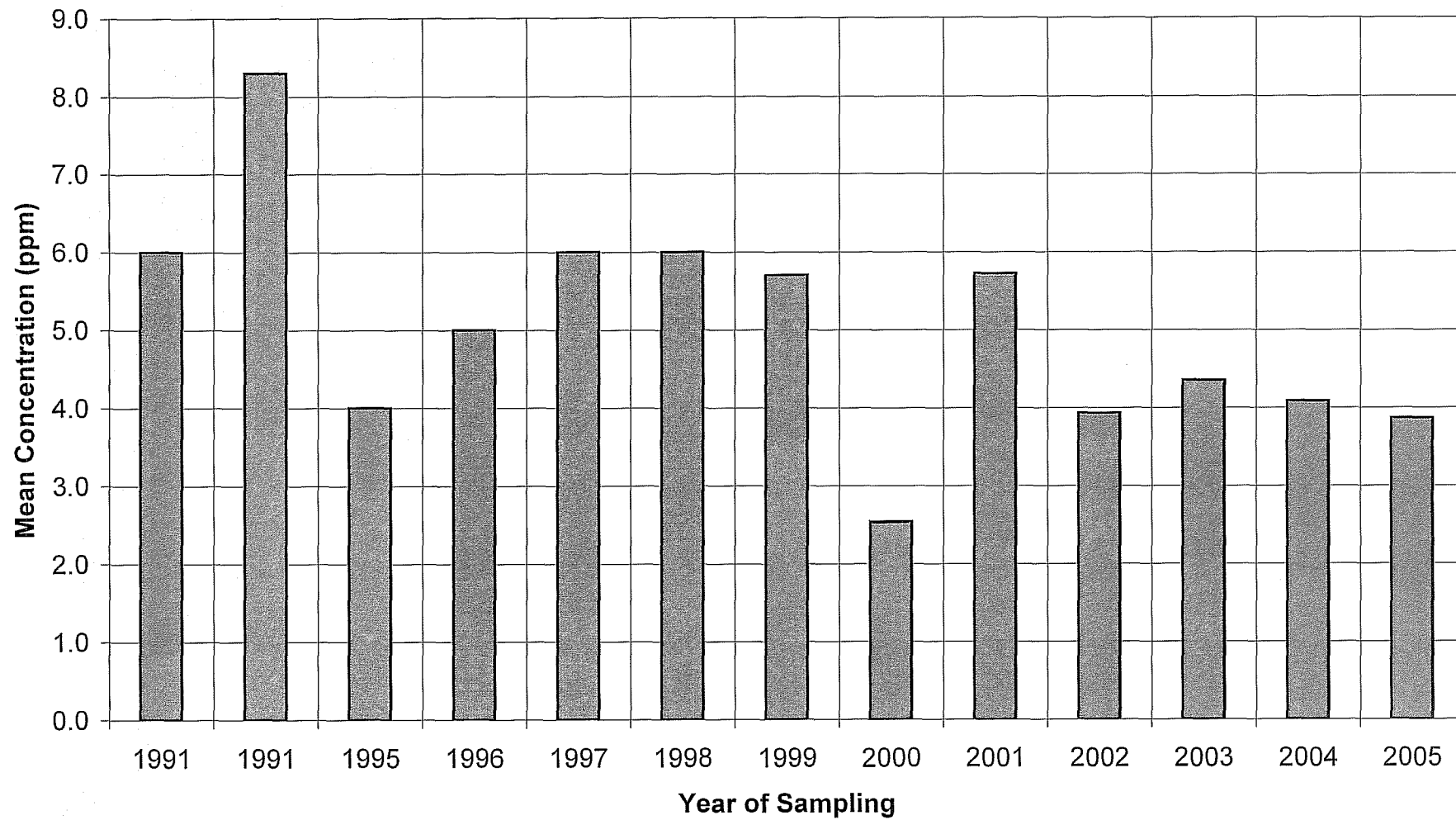


**Stream Sediment Site W06A
BC-33: Lee Creek Above Pacific Creek**



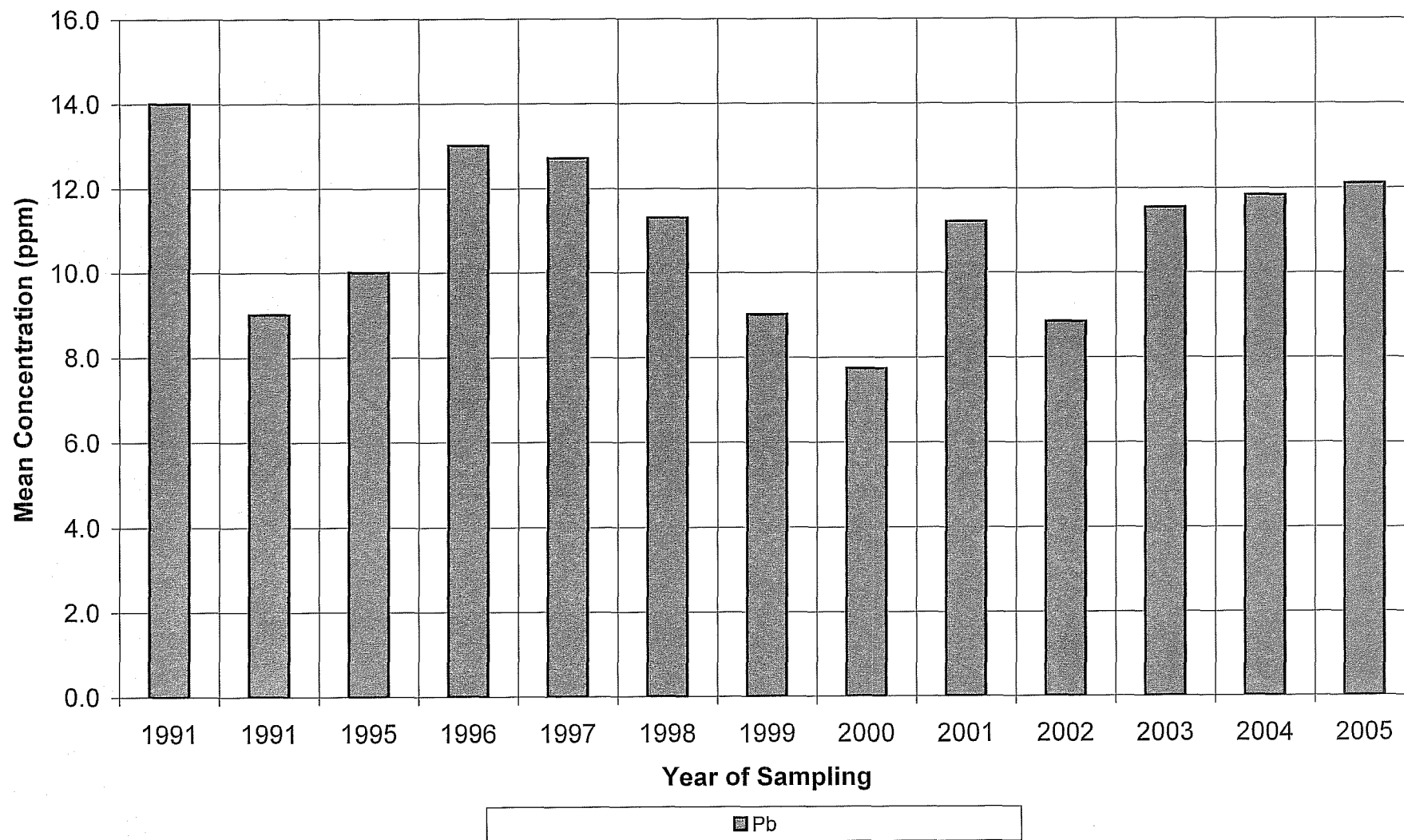
■ Hg

Stream Sediment Site W06A
BC-33: Lee Creek Above Pacific Creek

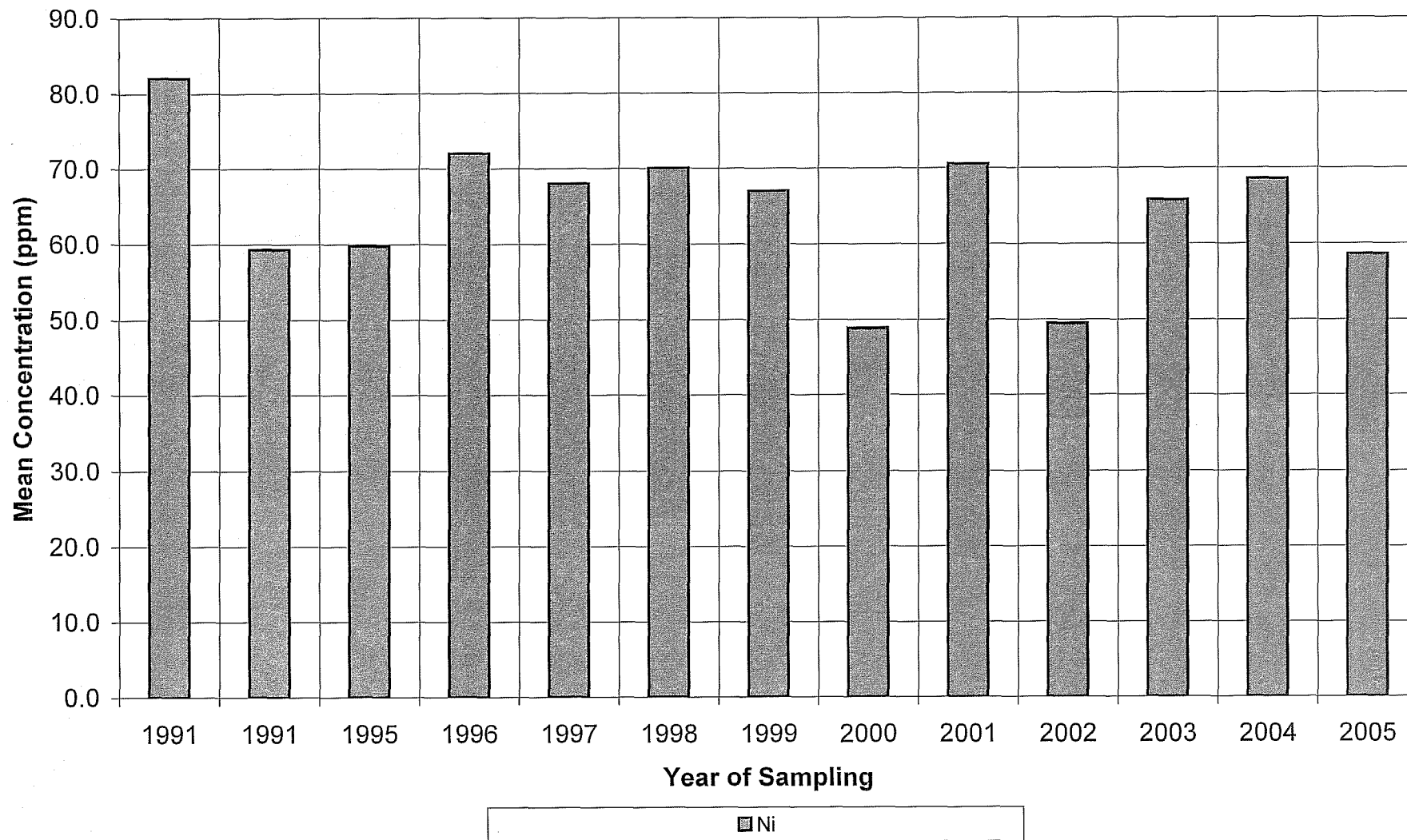


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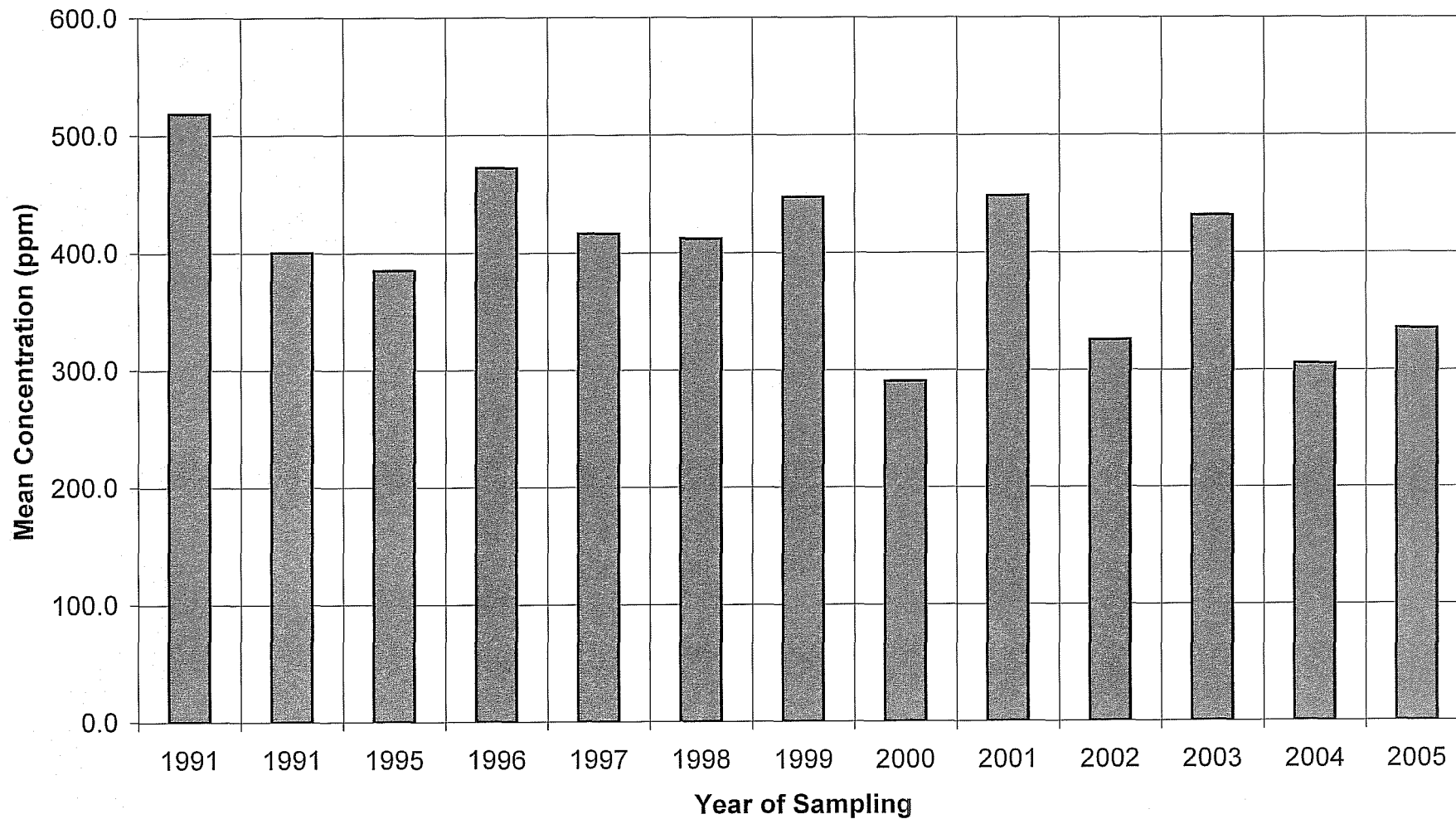
Stream Sediment Site W06A
BC-33: Lee Creek Above Pacific Creek



Stream Sediment Site W06A
BC-33: Lee Creek Above Pacific Creek

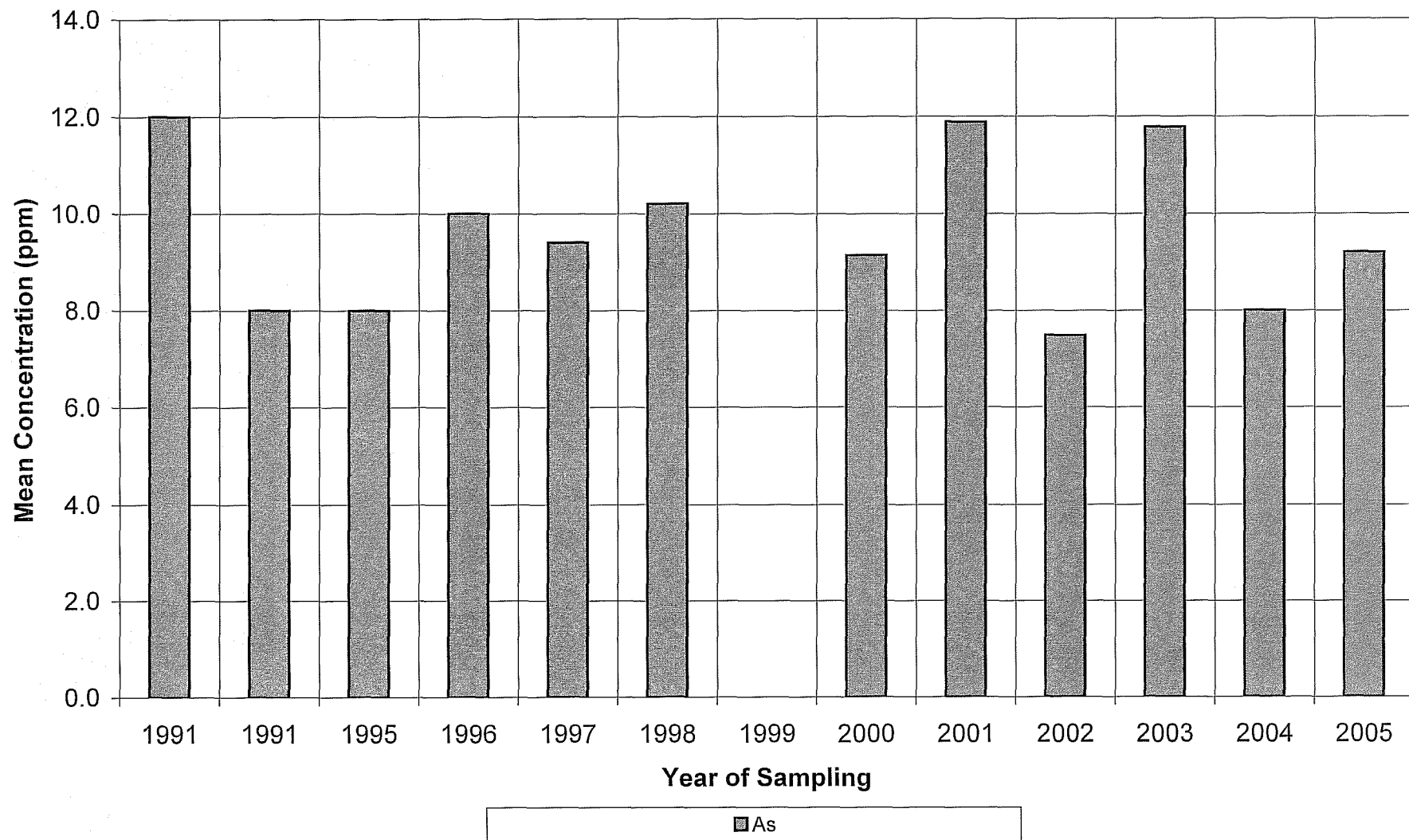


Stream Sediment Site W06A
BC-33: Lee Creek Above Pacific Creek

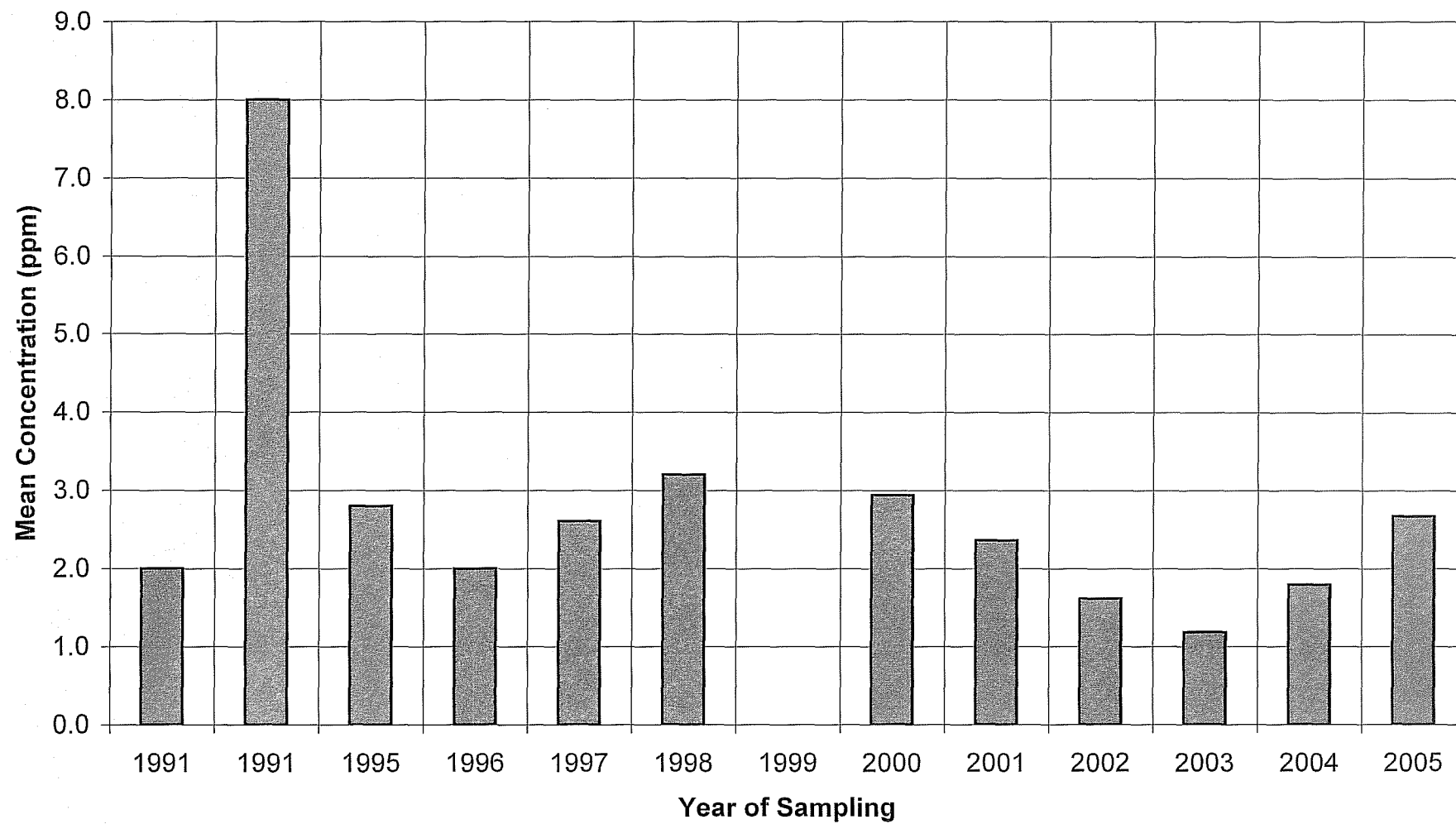


■ Zn

Stream Sediment Site W07
BC-34: Lee Creek at Ditch Road



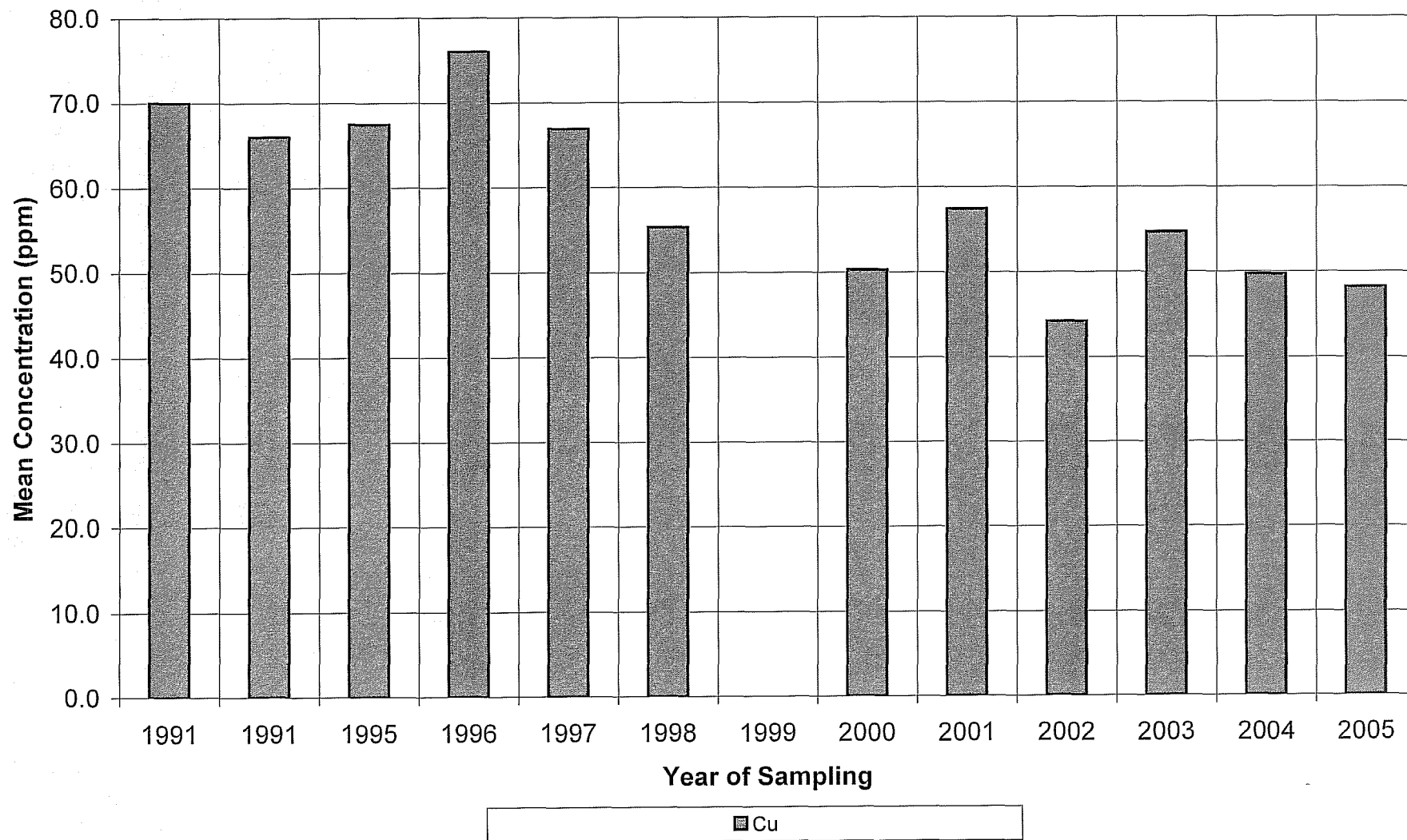
Stream Sediment Site W07
BC-34: Lee Creek at Ditch Road



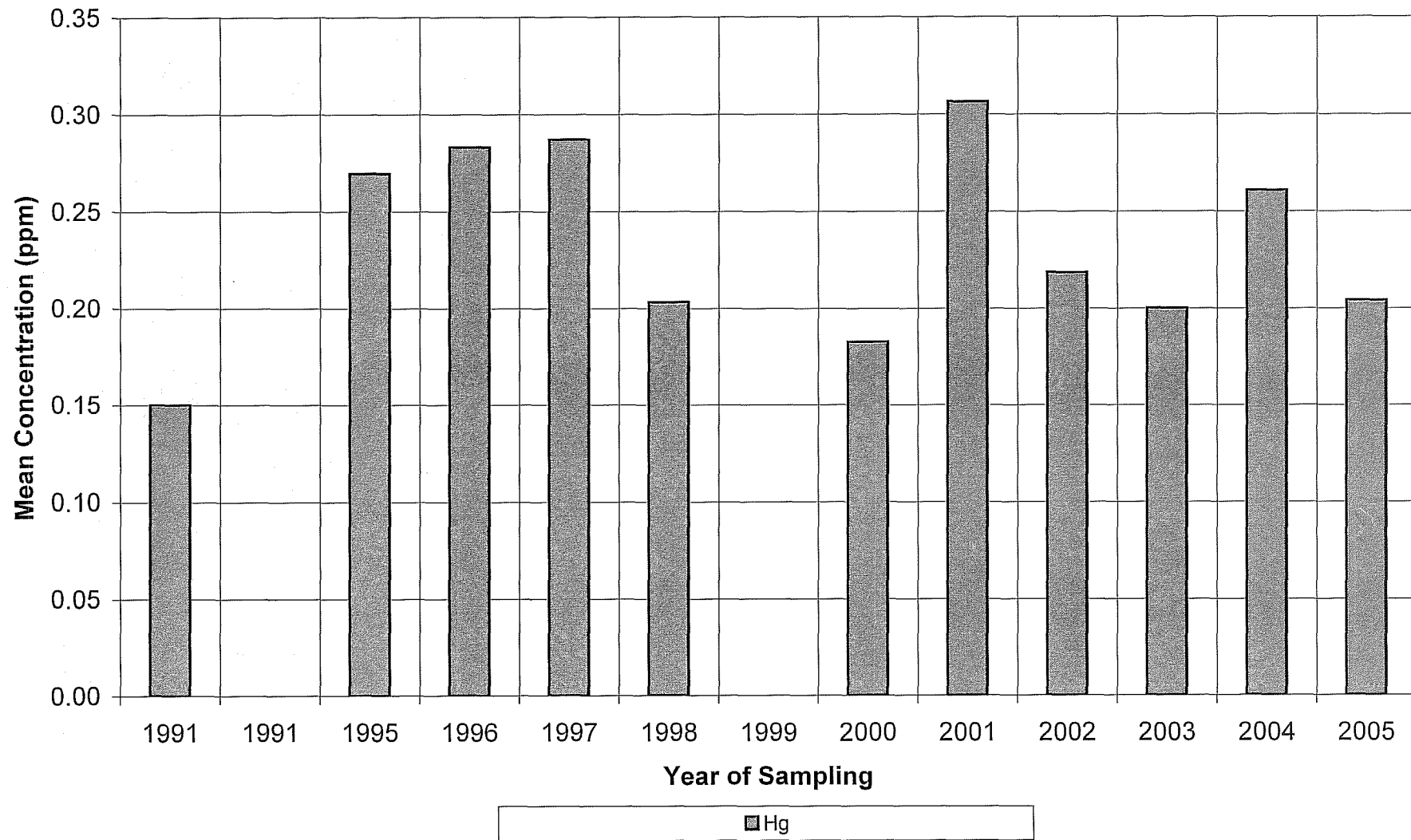
■ Sb



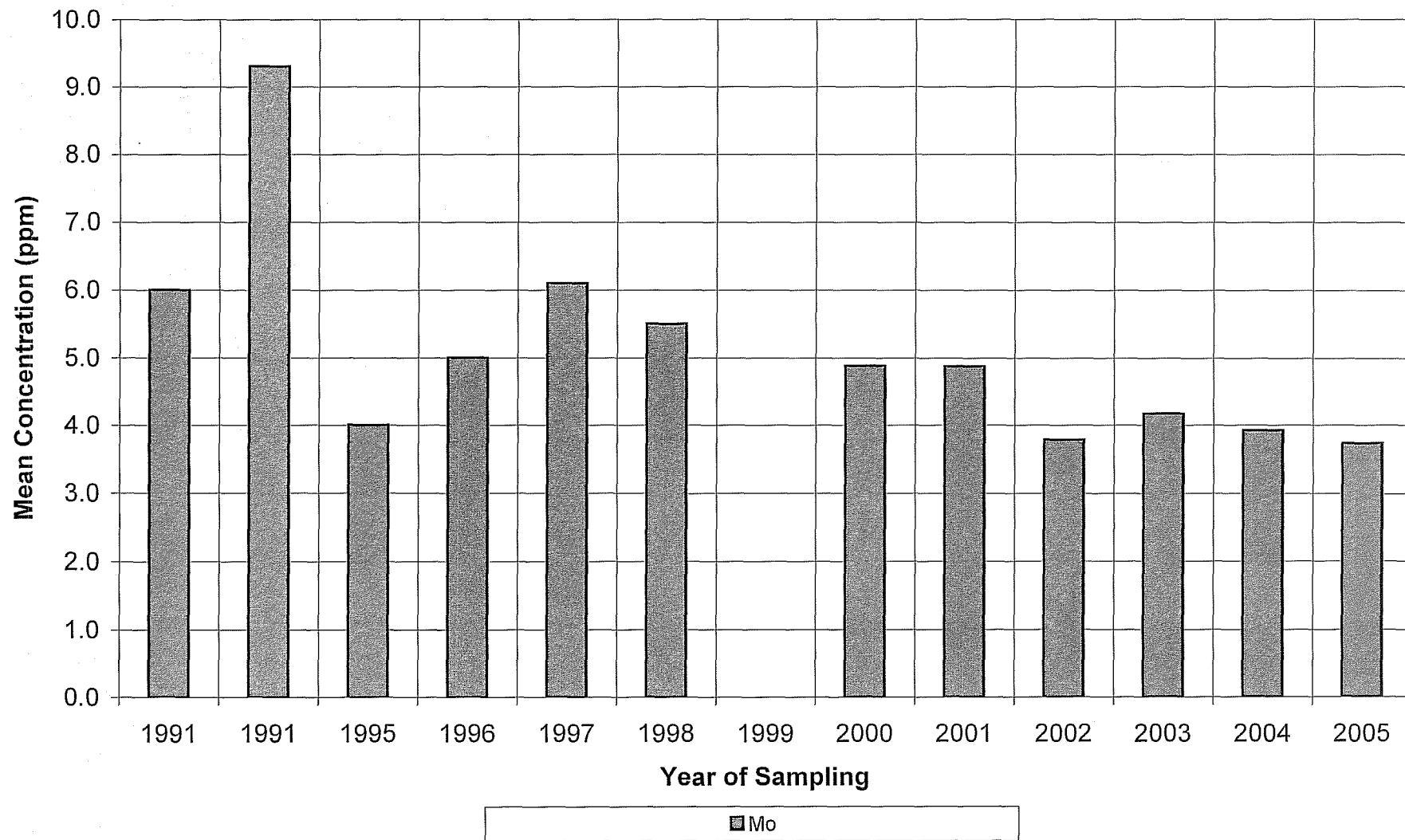
Stream Sediment Site W07
BC-34: Lee Creek at Ditch Road

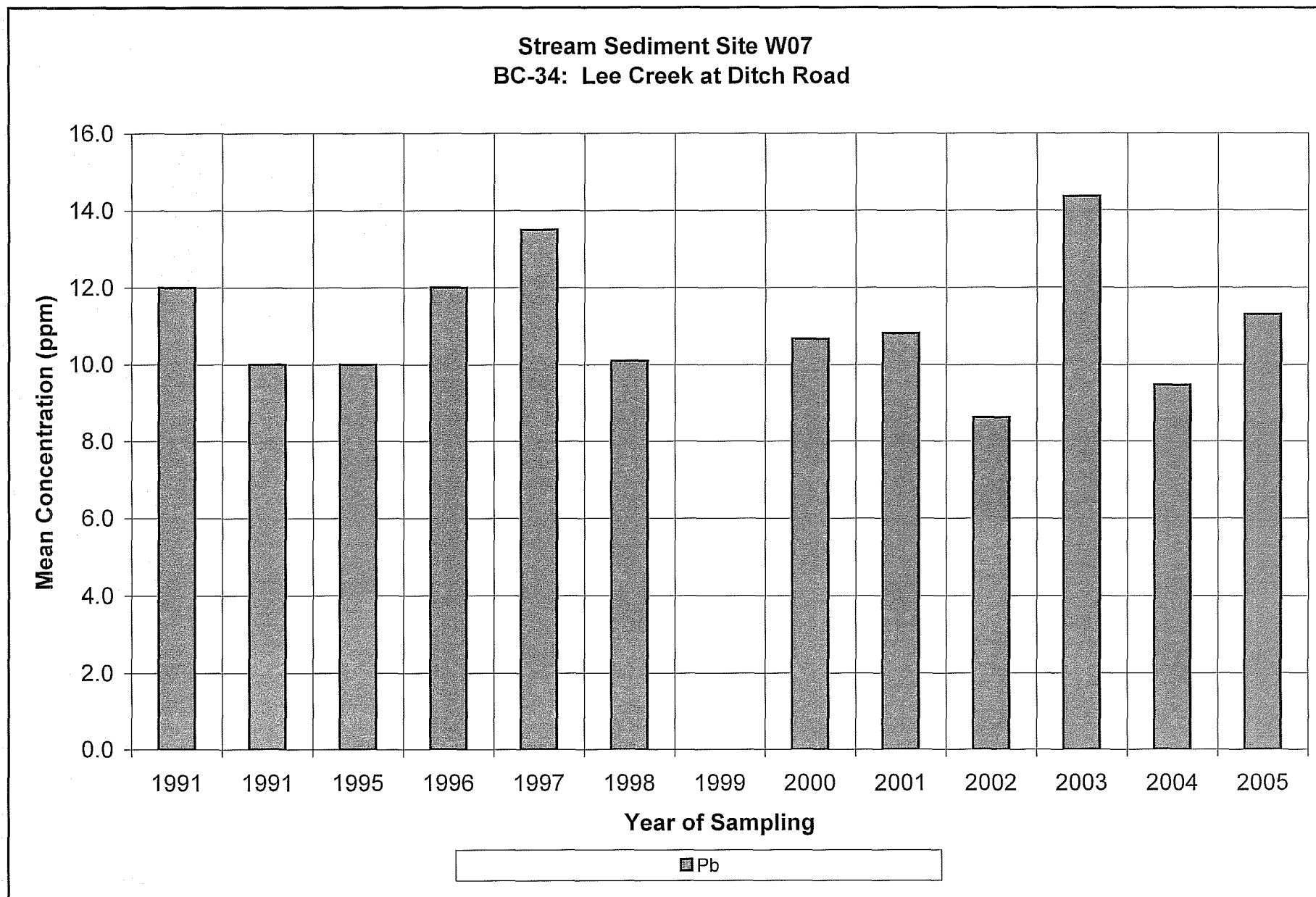


Stream Sediment Site W07
BC-34: Lee Creek at Ditch Road

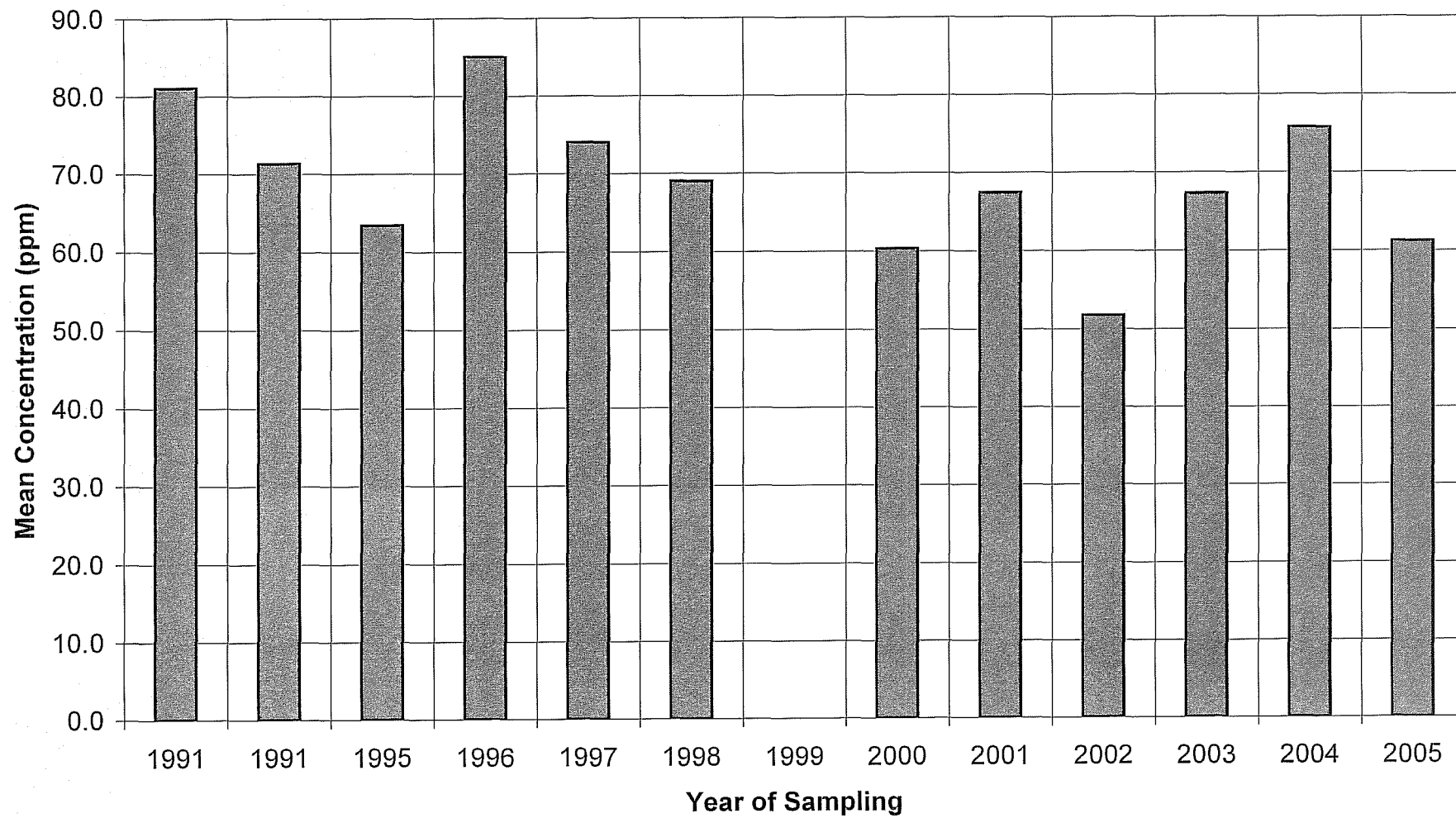


Stream Sediment Site W07
BC-34: Lee Creek at Ditch Road



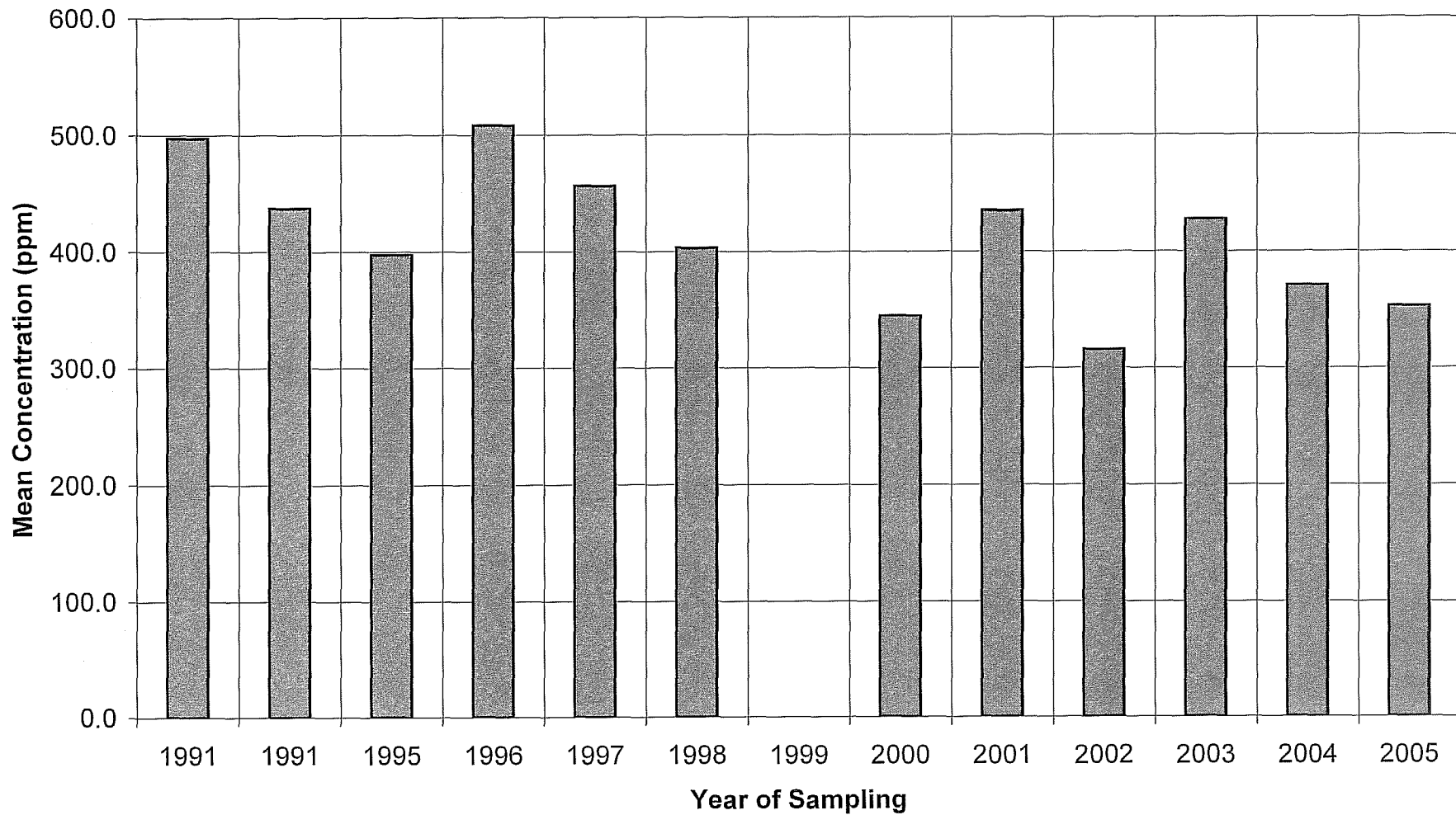


Stream Sediment Site W07
BC-34: Lee Creek at Ditch Road



■ Ni

**Stream Sediment Site W07
BC-34: Lee Creek at Ditch Road**



■ Zn

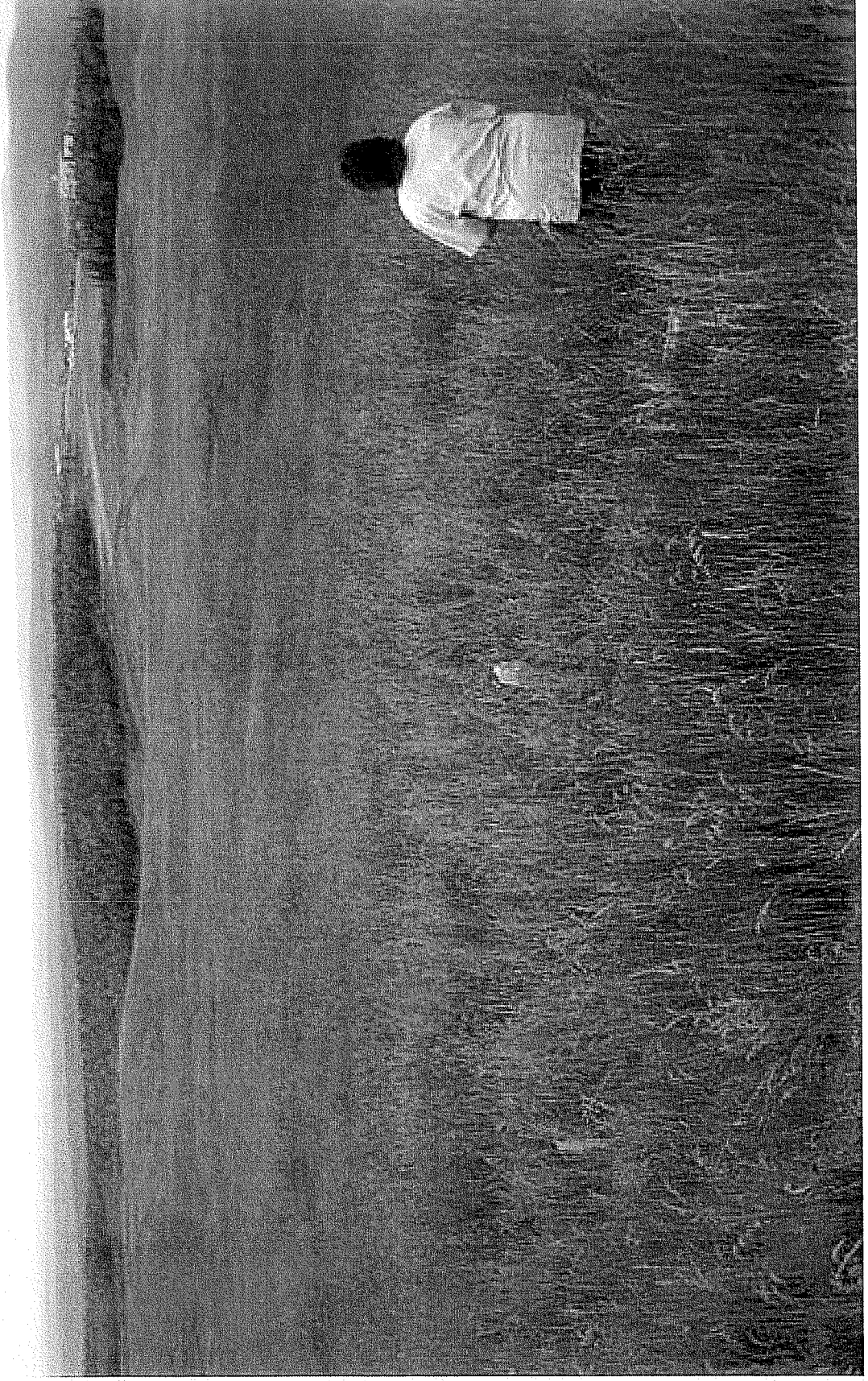
Appendix F
RECLAMATION
ACTIVITIES AND
LIABILITY REPORT

Appendix G

Reclamation Pictures

Top of heap August 2005. Laberge conducting reveg monitoring

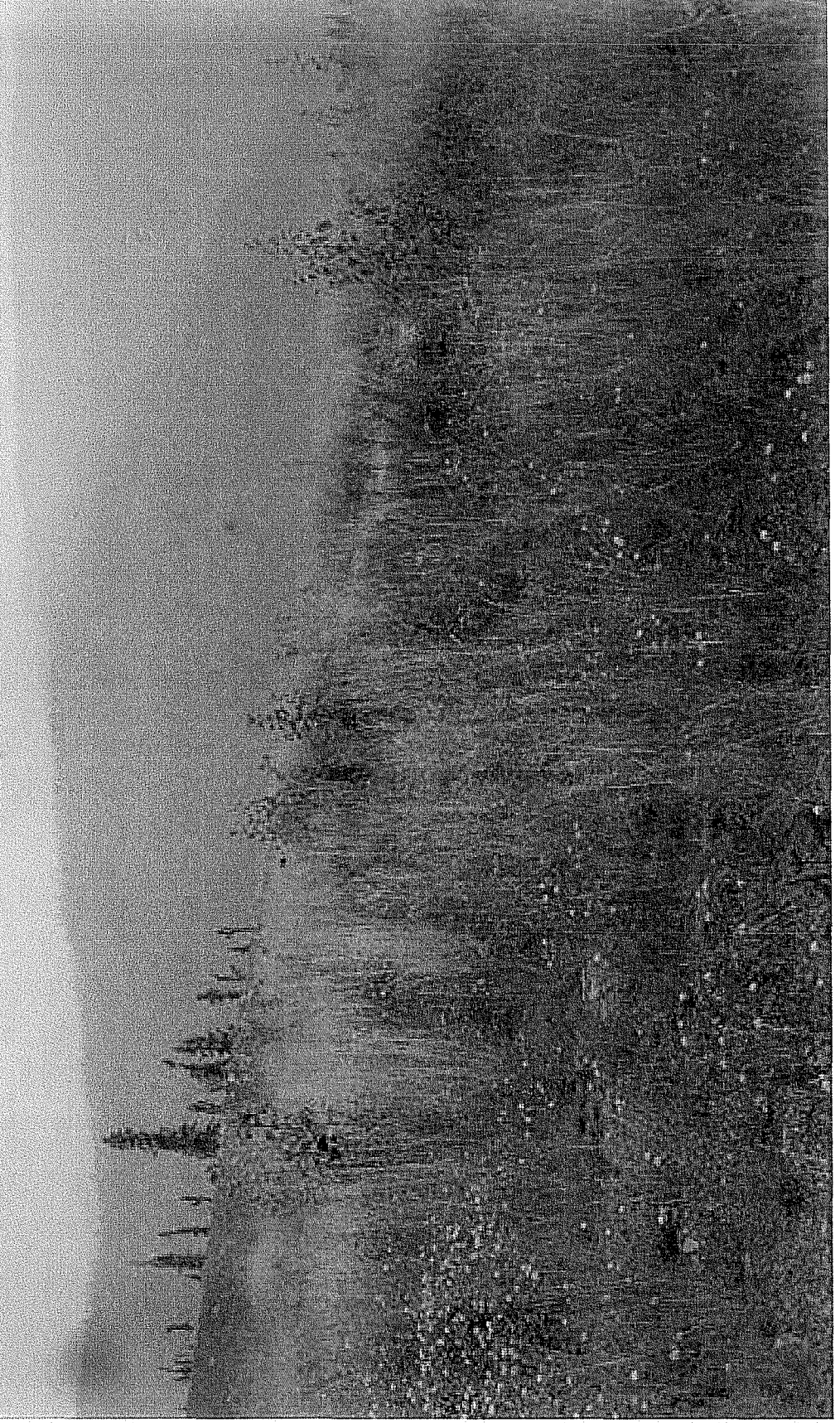
Seeded September 2003



First year growth Lucky Zone, reseeded from previous year



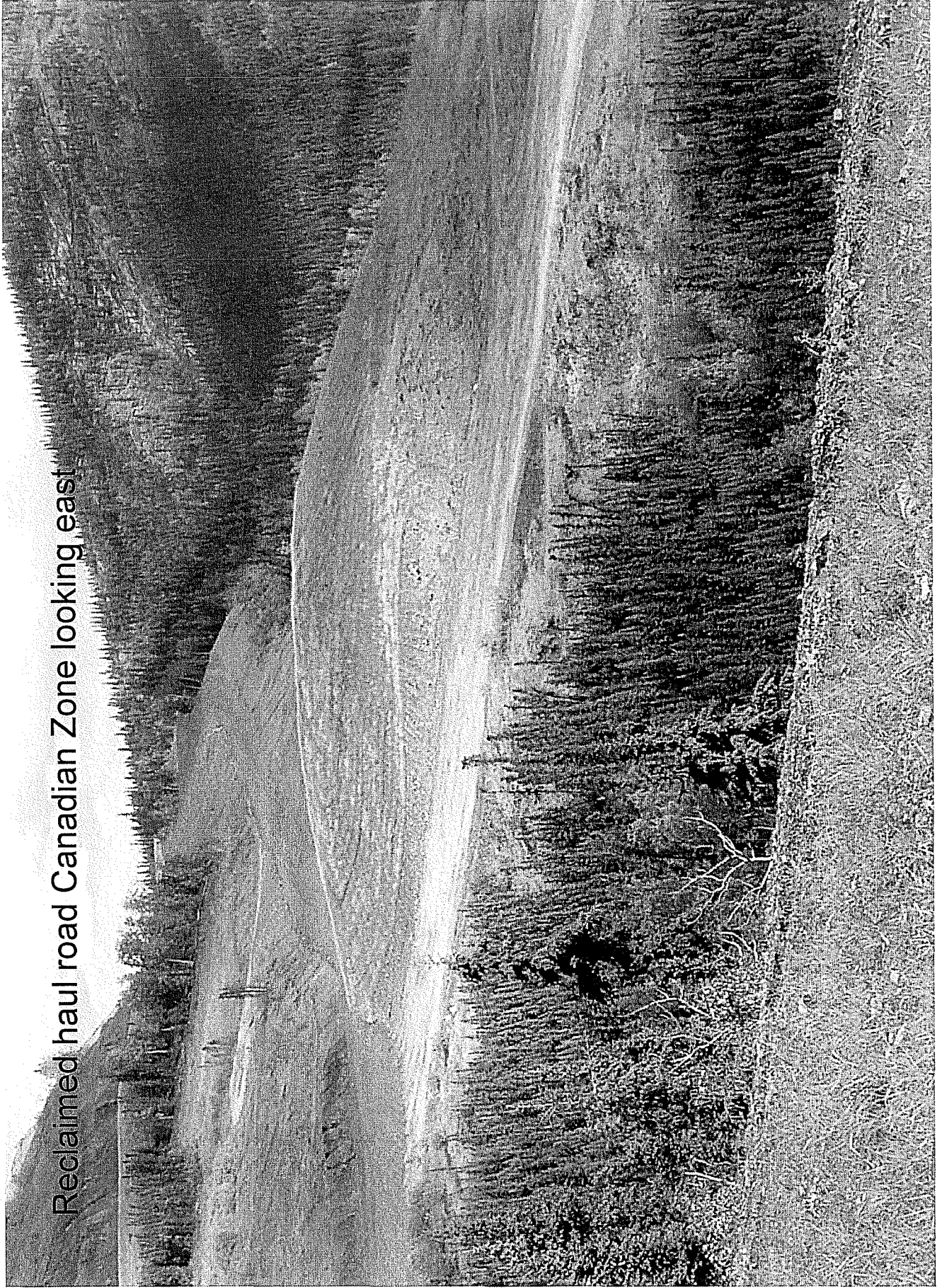
Evidence of natural species invasion, third year Moosehead Zone



Reclaimed haul road Canadian Zone, 3 months growth



Reclaimed haul road Canadian Zone looking east



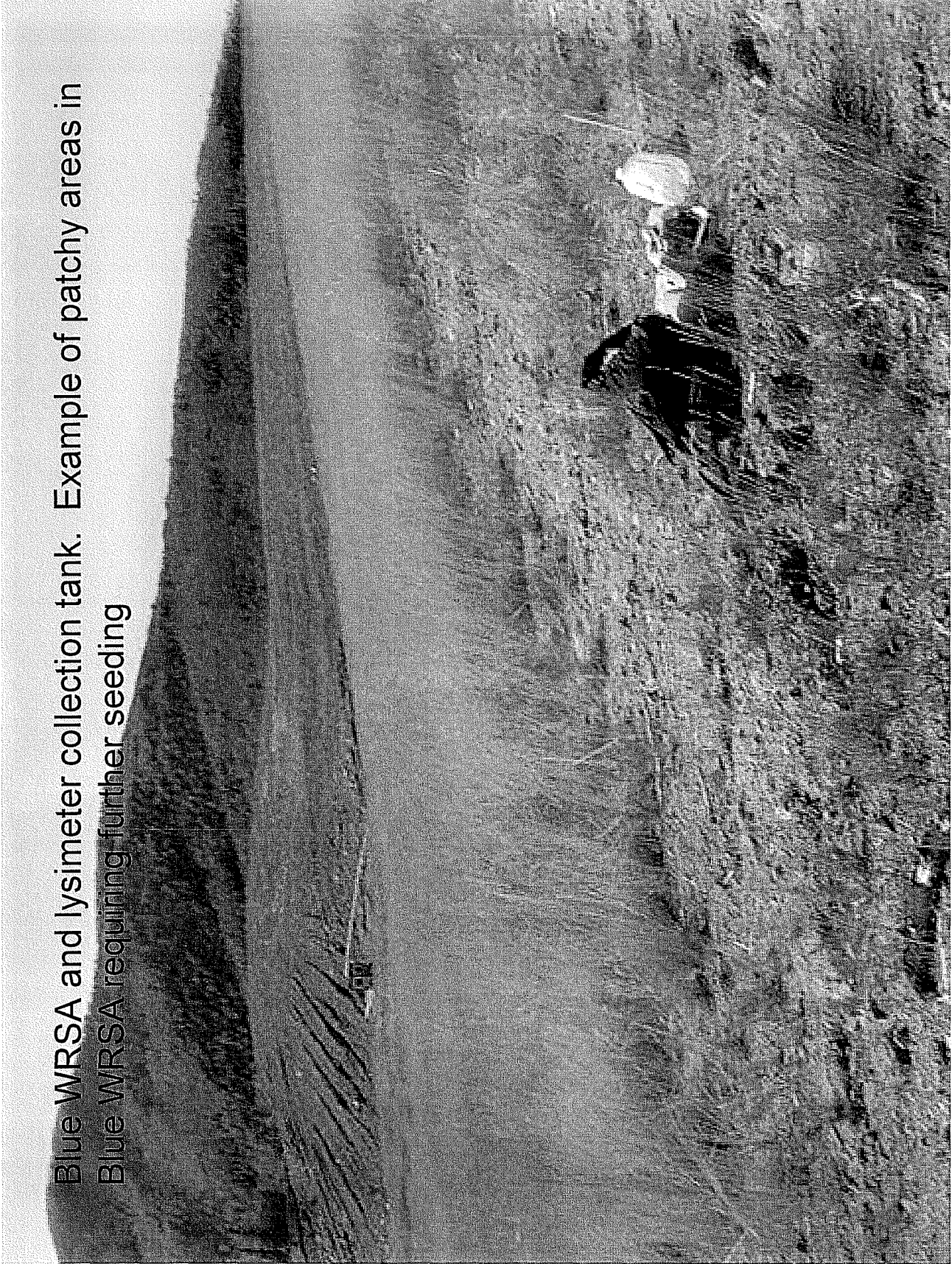
Third year growth Kokanee Zone, evidence natural species invasion



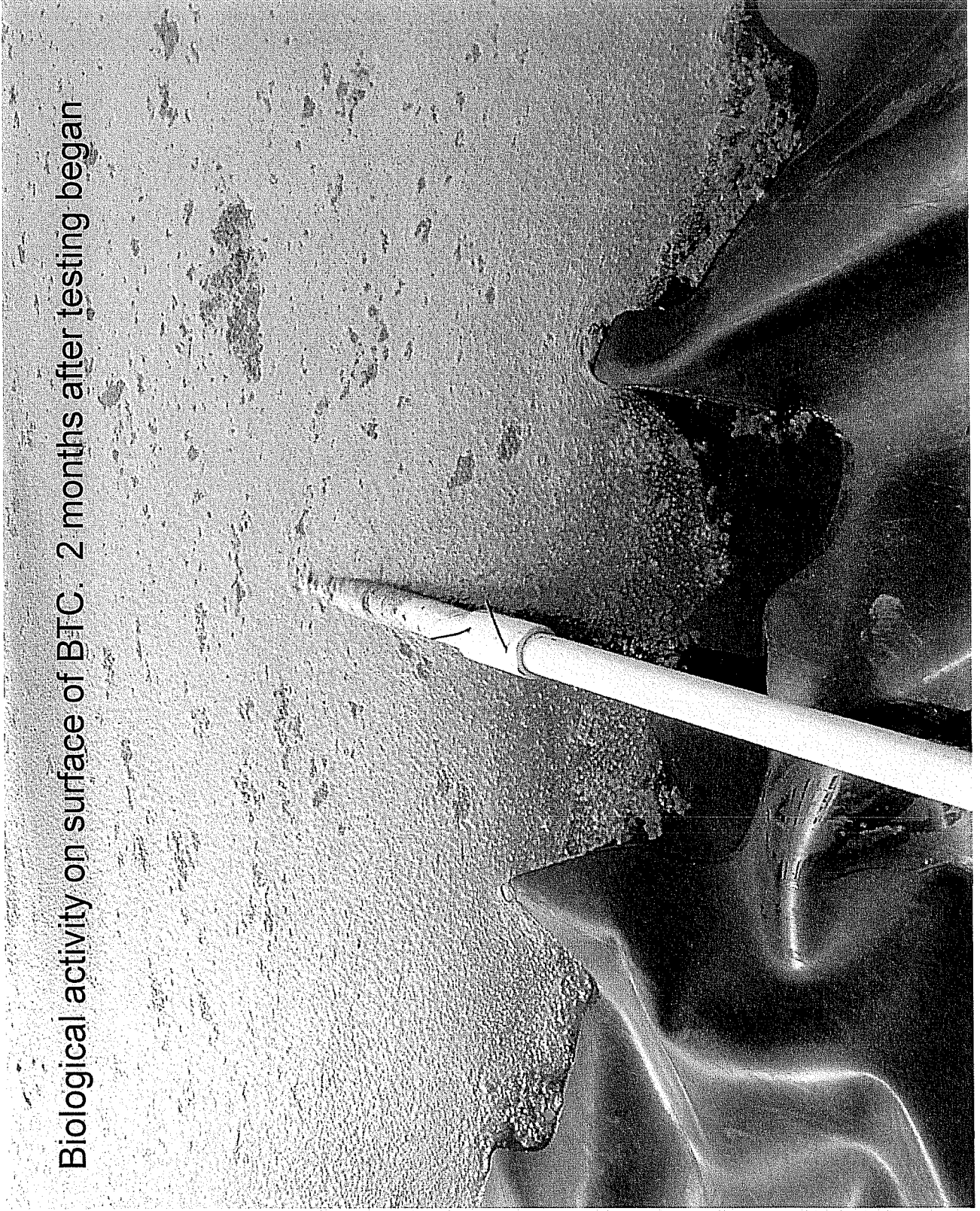
Bare area in Pacific reseeded in spring 2005 compared to second year growth



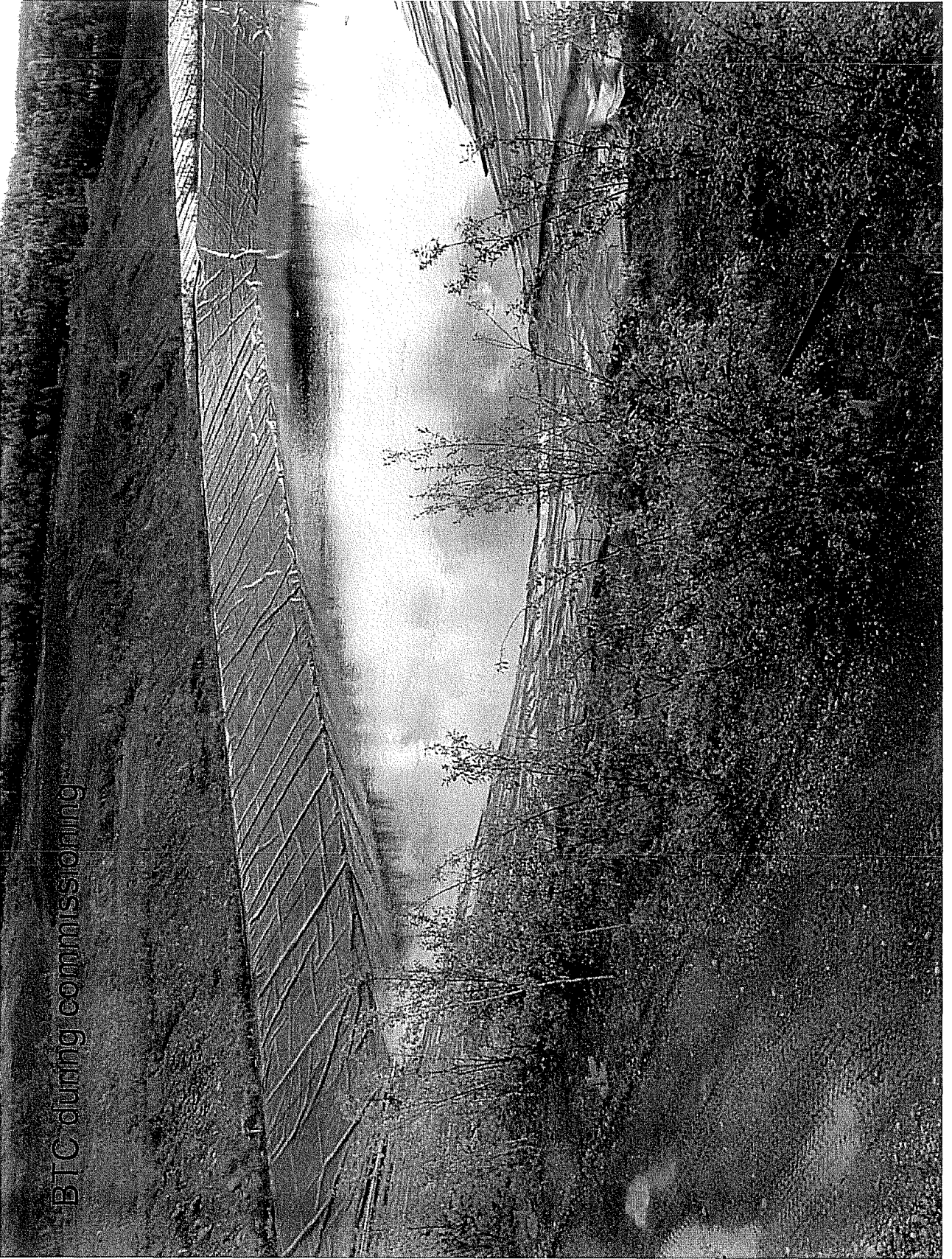
Blue WRSA and lysimeter collection tank. Example of patchy areas in Blue WRSA requiring further seeding



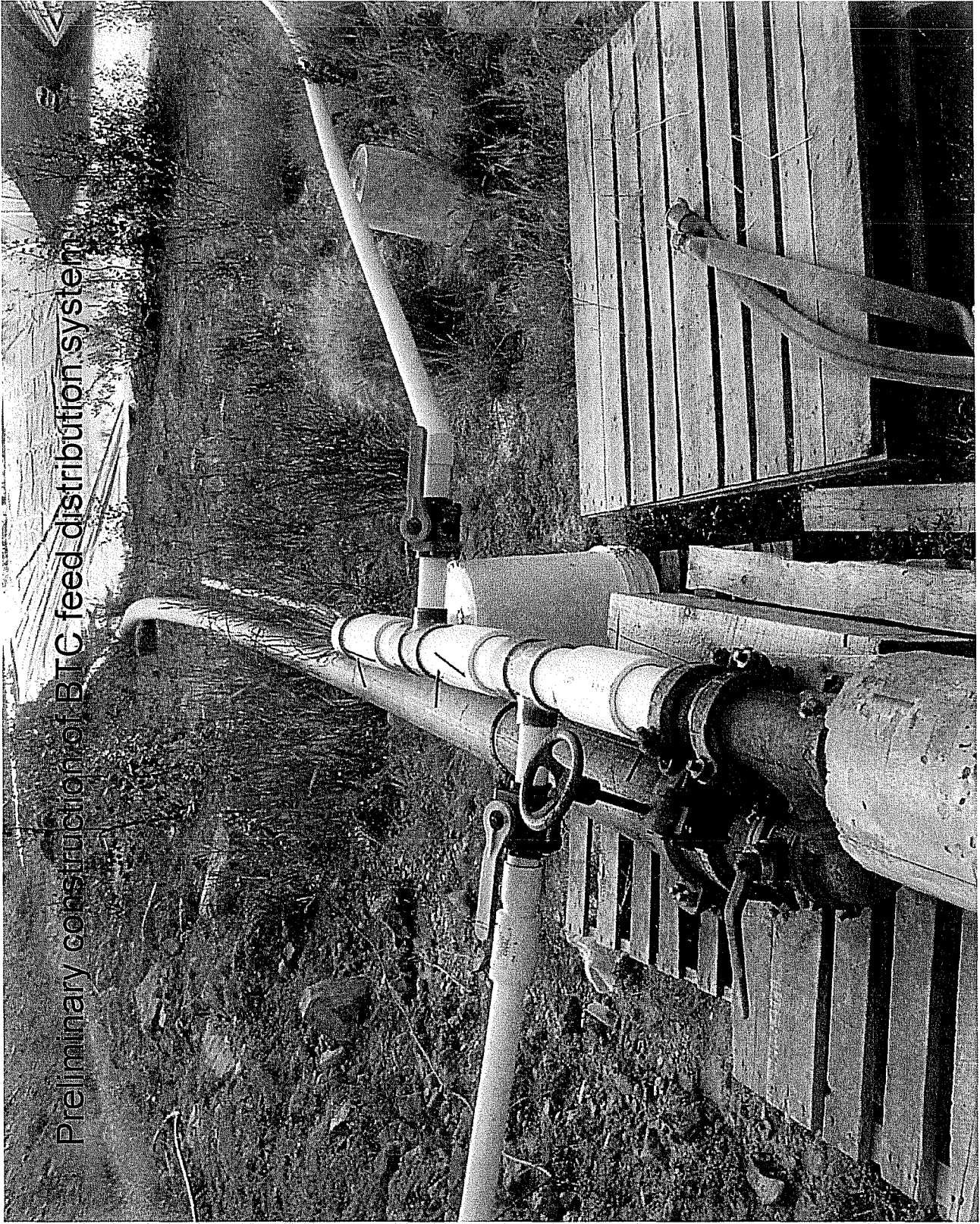
Biological activity on surface of BTC. 2 months after testing began



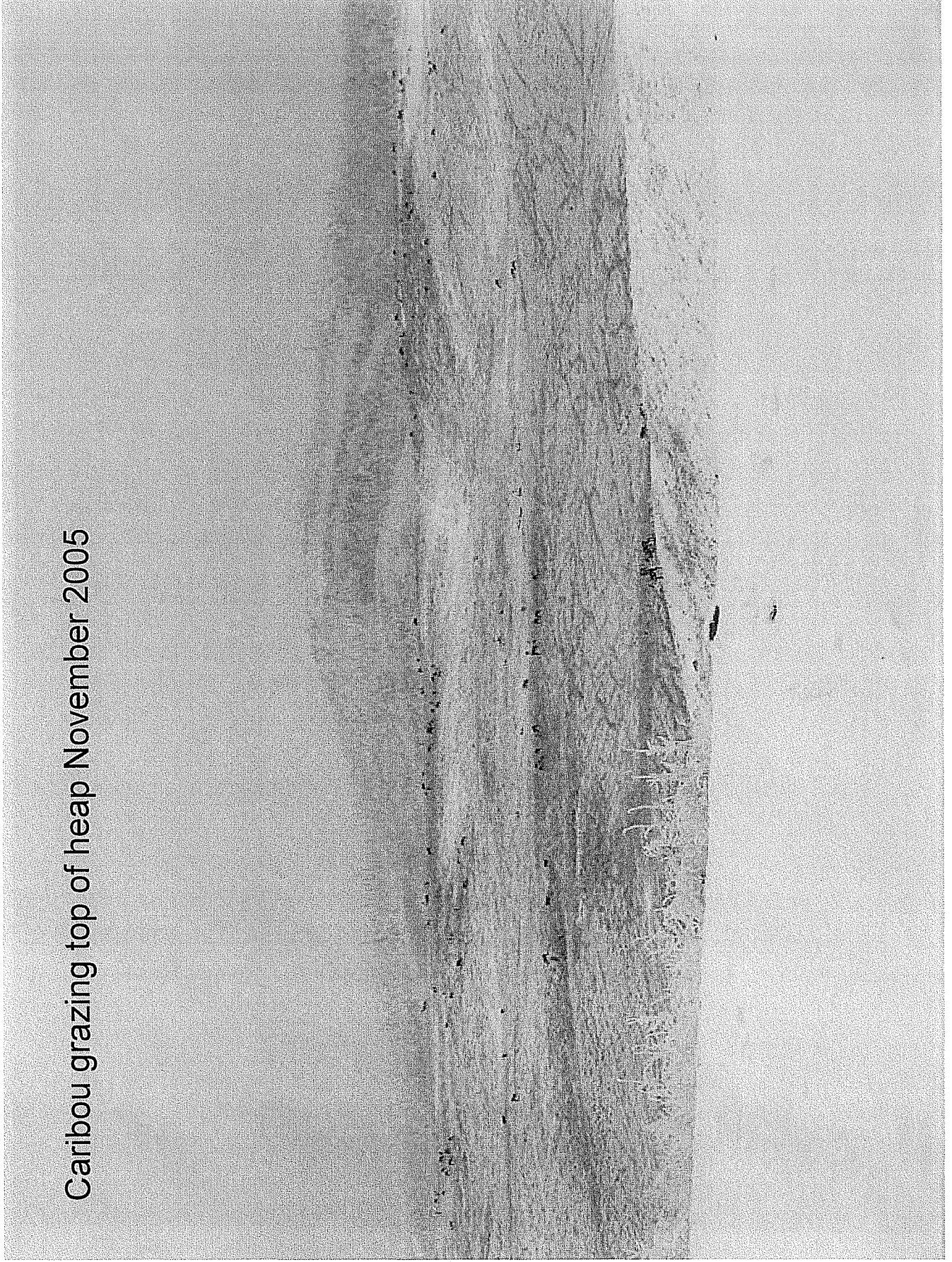
BTC during commissioning



Preliminary construction of BTC feed distribution system



Caribou grazing top of heap November 2005



Final construction of rip/rap stream crossings

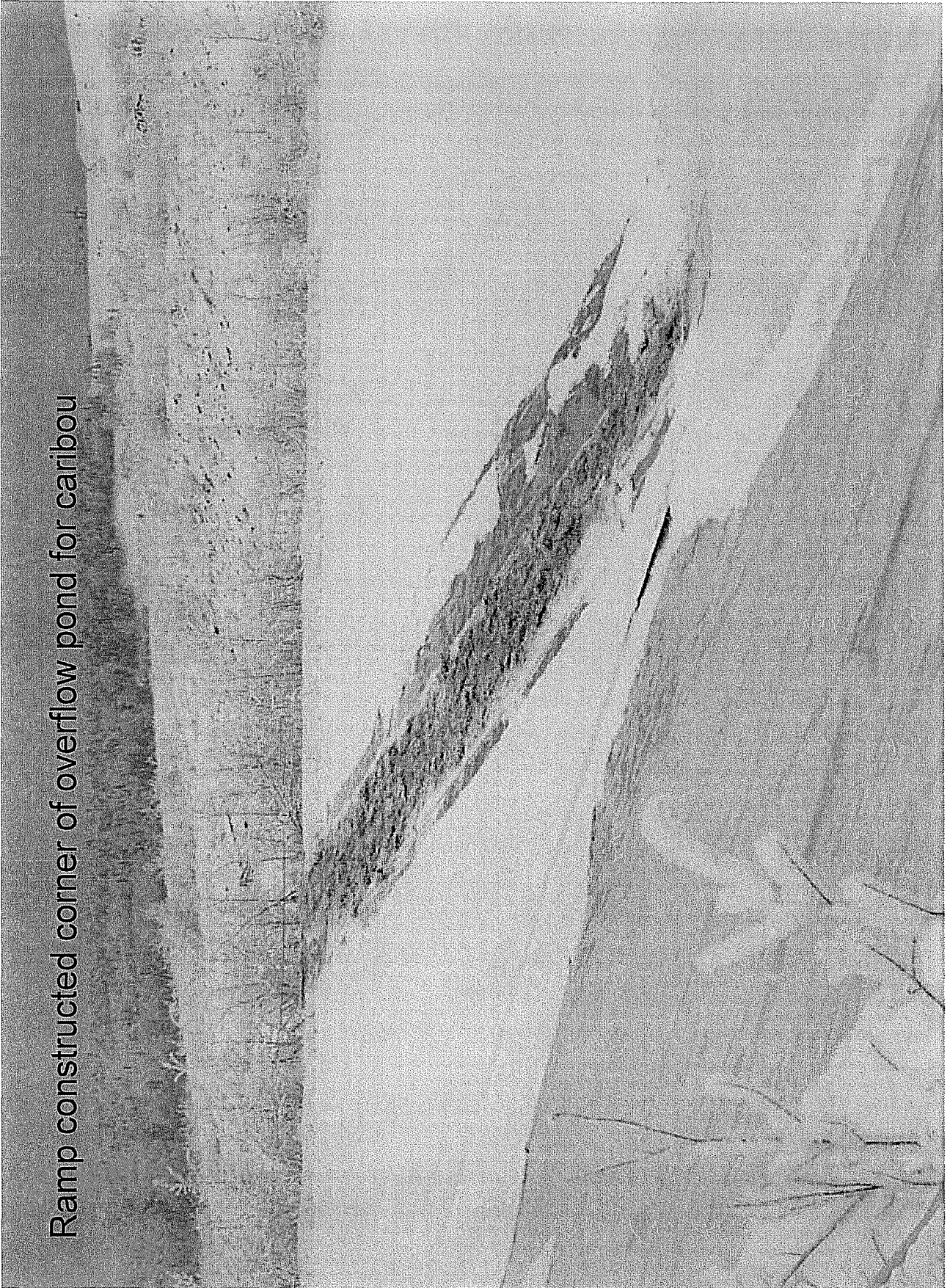
2004-09-21 11:26



Caribou grazing Canadian haul road November 2005

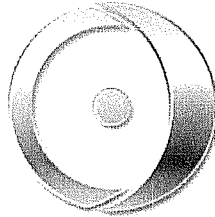


Ramp constructed corner of overflow pond for caribou



Appendix H

Soil Survey Report



ALEXCO

Soil Survey Report

Brewery Creek Mine Yukon Territory

January, 2006

Prepared by:



**ACCESS
CONSULTING
GROUP**

www.accessconsulting.ca

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1.0 INTRODUCTION

Alexco Resources Corp. (Alexco) is presently undertaking decommissioning and reclamation activities at the Brewery Creek Mine located near Dawson City, Yukon Territory. The site is being decommissioned in accordance with their approved Decommissioning and Reclamation Plan ("Viceroy DRP") and terms and conditions of Water Use Licence QZ96-007, including subsequent amendments, and Quartz Mining Licence (A99-001 and amendment 04-001). Schedule C, Section F of the Quartz Mining Licence requires that the following be undertaken:

"Soils to be tested for contamination around equipment storage and maintenance areas at the camp and around dismantled fuel storage areas. Where contamination is detected, the soil will be treated with appropriate measures as described in the DRP."

Access Consulting Group (ACG) of Whitehorse, Yukon Territory, was retained by Alexco to undertake a soil survey and collect soil samples at specific locations at the Brewery Creek Mine and identify possible contamination in soils. Remediation efforts would then be targeted in these areas. The sampling procedures, methods and contaminated soil criteria are those prescribed in the Yukon *Contaminated Sites Regulation* (CSR) and the appropriate American Society for Testing and Materials (ASTM) standards (D 4547-03¹ and D 5633-04²).

¹ Standard Guide for Sampling Waste and Soils for Volatile Organic Compounds

² Standard Practice for Sampling with a Scoop

2.0 OBJECTIVES AND METHODOLOGY

Prior to undertaking the soil survey, specific locations on the property where possible contamination might be present were reviewed with management and site personnel. At all soil sample locations, approximately 10 cm of reclamation growth media had been placed as part of the reclamation and closure plan. The source of the growth media was from natural soils obtained throughout the property during the initial pre-stripping and development of the mine. Soil samples were collected by D. Cornett of ACG, with the assistance of Peter Johnson of Alexco on September 7, 2005. Weather conditions were ideal and the ground was not frozen during sampling. Figure 1 provides a general location map of the Brewery Creek Mine, while Figure 2 shows the locations of the 12 sites where soils were sampled on the property. Figure 3 shows a detailed location map of the minesite for the 10 sample sites.

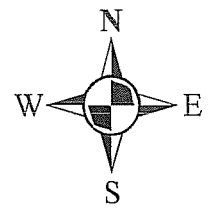
The soil survey was conducted specifically to characterize soils near site infrastructure, fuel or reagent storage areas and equipment marshalling areas for total metals and petroleum hydrocarbon levels. The CSR and the appropriate ASTM Standards for soil sampling were used to provide guidance for sampling procedures and to assess soil contamination for an industrial undertaking.

Sampling was undertaken by excavating a hole in the soil using a mattock and samples were taken consistently at a depth of 10 cm at each site with a clean, inert, sampling trowel. The trowel was wiped clean after each sample was taken. Within the sample site, two to five locations were chosen to be representative of the area and to form composite samples for analysis for the area. From each sample location, two aliquots and one discreet sample were obtained: one aliquot to create a 1 kg composite for metals testing, another aliquot to create a 500 ml sample for hydrocarbon testing, and the discreet sample as 250 ml of soil to provide a back-up grab sample. Table 1 gives a description of each sample site, their positions, and the number of aliquots used to form each composite. Appendix A contains selected plates from the soil sampling activities.

The composite samples were kept cool and flown by Air North and delivered to Norwest Labs (a CAEAL-certified laboratory) in Vancouver for analysis of soils total metals, extractable petroleum hydrocarbons (EPH), heavy extractable petroleum hydrocarbons (HEPH), light extractable petroleum hydrocarbons (LEPH) and polyaromatic hydrocarbons (PAH).

Table 1 Brewery Creek Mine - Soil Sampling Site Information

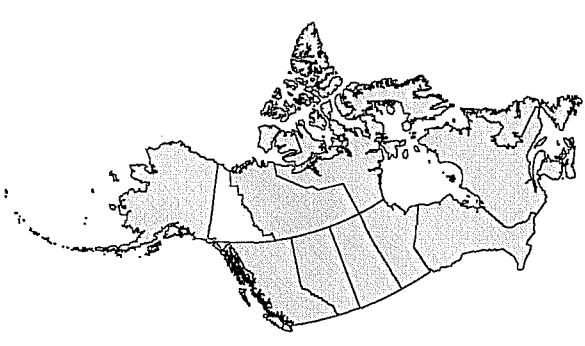
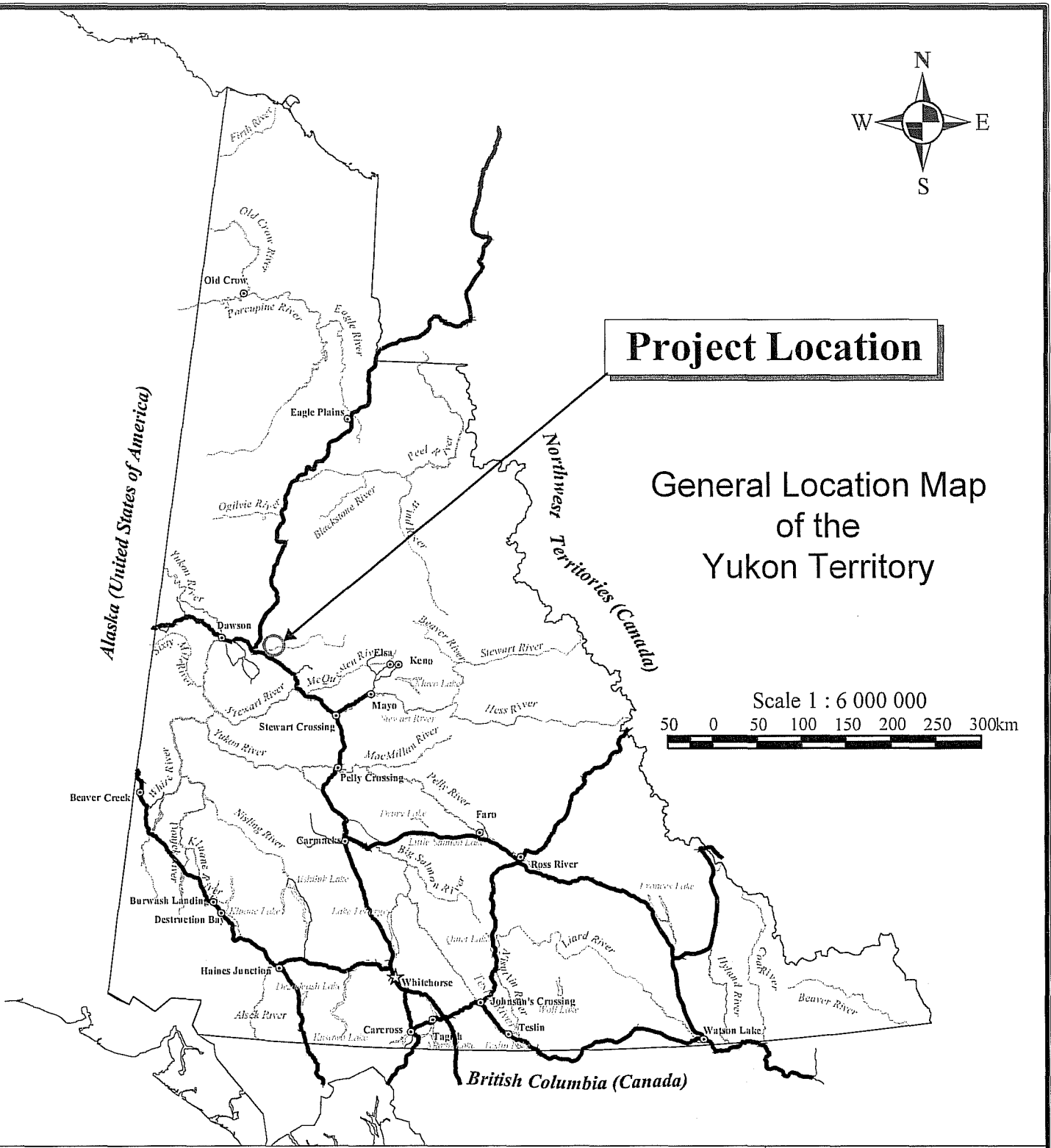
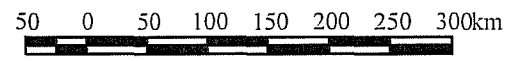
Site ID	Sample Site Description	UTM Easting ¹	UTM Northing ¹	Depth of Sample	Soil Type	# of Samples	Sample #'s	Analytical Parameters
RA-S-#1	Reagent Storage Area at ADR Plant	632522	7104005	10cm	silty sand with small angular gravel	4	(RA-S- #1A) - (RA-S- #1D)	Total Metals, EPH, LEPH, HEPH, PAH
ADR-F-S-#2	ADR Plant Fuel Storage Area	632692	7103925	10cm	silty sand with small gravel and larger angular rock	4	(ADR-F-S-#2A) - (ADR-F-S-#2D)	Total Metals, EPH, LEPH, HEPH, PAH
L-S-#3	Assay Lab Area	632692	7103890	10cm	silty sand with organics	5	(L-S-#3A) - (L-S- #3E)	Total Metals, EPH, LEPH, HEPH, PAH
ADR-S-#4	ADR Plant Area	6322652	7103918	10cm	silty sand with organics	5	(ADR-S-#4A) - (ADR-S-#4E)	Total Metals, EPH, LEPH, HEPH, PAH
C-S-#5	Camp Site Area	632157	7105001	10cm	sandy silt sand with small gravel and larger angular rock	4	(C-S-#5A) - (C-S-#5D)	Total Metals, EPH, LEPH, HEPH, PAH
MF-S-#6	Main Fuel Storage Area	632406	7104982	10cm	silty sand with small gravel and organics	4	(MF-S-#6A) - (MF-S- #6D)	Total Metals, EPH, LEPH, HEPH, PAH
OS-S-#7	Oil Storage Area	632406	7104982	10cm	silty sand with small angular gravel	2	(OS-S-#7A) - (OS-S- #7B)	Total Metals, EPH, LEPH, HEPH, PAH
LS-S-#8	Lime Silo Storage Area	633056	7104831	10cm	silty sand with small angular gravel (partial vegetation)	3	(LS-S-#8A) - (LS-S- #8C)	Total Metals, EPH, LEPH, HEPH, PAH
BY-S-#9	Bone Yard Area	633126	7104697	10cm	silty sand with small angular gravel (partial vegetation)	4	(BY-S-#9A) - (BY-S- #9D)	Total Metals, EPH, LEPH, HEPH, PAH
GL-S-#10	Golden Lay Down Area	636953	7106331	10cm	sandy silt with small angular gravel (partial vegetation)	4	(GL-S-#10A) - (GL-S-#10D)	Total Metals, EPH, LEPH, HEPH, PAH
EXP-S-#11	Explosive Storage Area	634883	7105665	10cm	sandy silt with small angular gravel (partial vegetation)	4	(EXP-S-#11A) - (EXP-S-#11D)	Total Metals, EPH, LEPH, HEPH, PAH
EQ-S-#12	Main Equipment Ready Area (in front of Administration Bldg)	632332	7104998	10cm	sandy silt with small angular gravel and rock	5	(EQ-S-#12A) - (EQ-S-#12E)	Total Metals, EPH, LEPH, HEPH, PAH



Project Location

General Location Map of the Yukon Territory

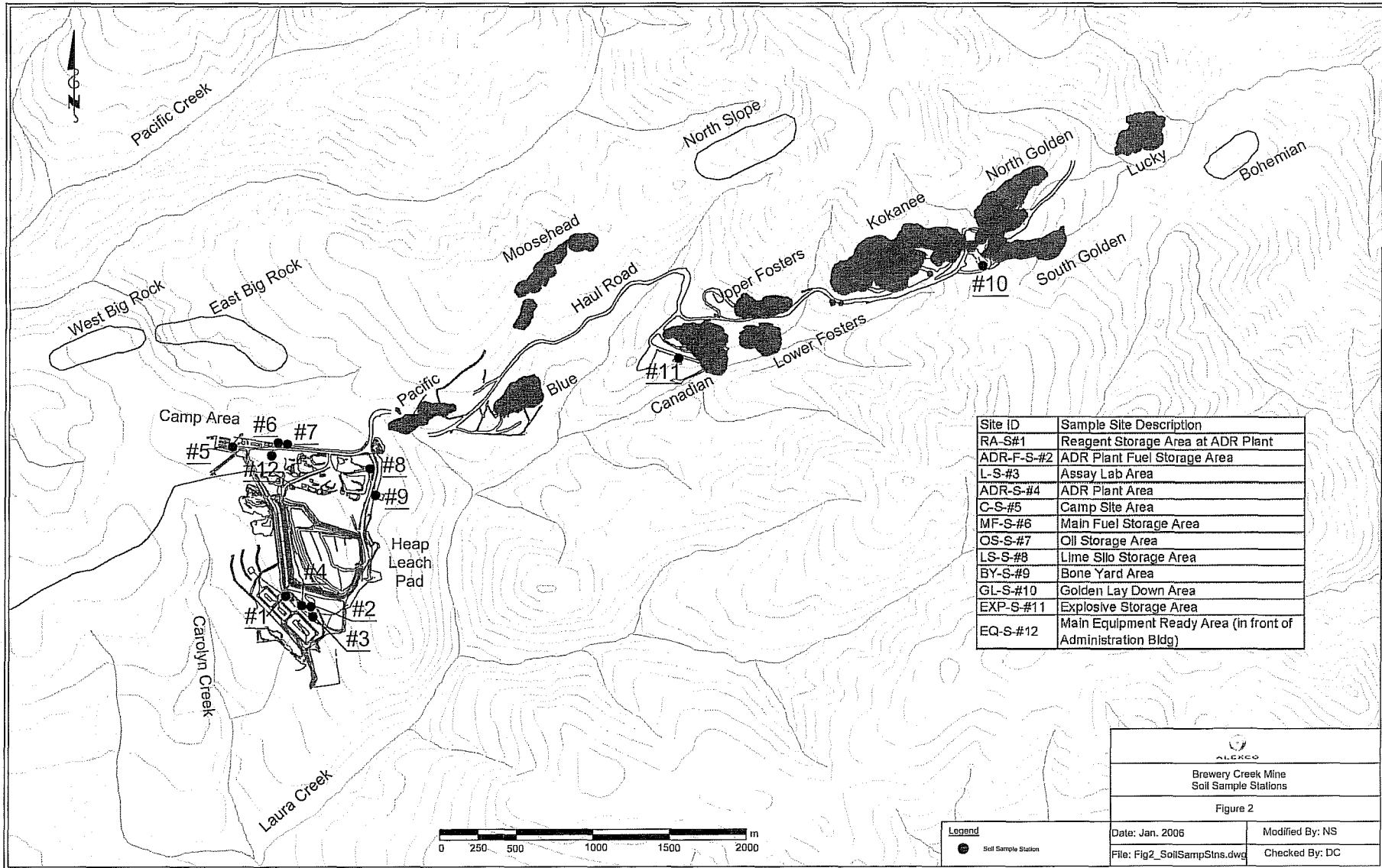
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
**Soil Survey
Brewery Creek Mine,
Yukon Territory**


Drawn By: HD	Figure 1
Checked By: DC	Date: Jan. 2006

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 ALESCO	
Brewery Creek Mine Site Soil Sample Stations	
Figure 3	
Date: Jan. 2006	Modified By: NS
File: Fig3_SoilSampStnsMineSite.dwg	Checked By: DC

Legend  Soil Sample Station
--

3.0 RESULTS

Table 2 displays the analytical results of the soil samples analysis by Norwest Labs in Vancouver. Also included are the detection limits and Yukon *Contaminated Sites Regulations* (CSR) criteria for applicable parameters. Appendix B contains laboratory analytical results from Norwest Labs.

Table 2: Brewery Creek Mine Soil Analytical Results Compared with Yukon Contaminated Sites Regulations

Sample Description	Units	Reagent Area	ADR Fuel	Lab	ADR Plant	Camp Area	Mach Fuel	Oil Storage	Lime Silo	Bone Yard	Golden Laydown	Explosive Area	Equipment Area	Detection Limit	Yukon CSR* Industrial	Yukon CSR* Parkland
Site ID		RA-S-#1	ADR-F-S-#2	L-S-#3	ADR-S-#4	C-S-#5	MF-S-#6	OS-S-#7	LS-S-#8	BY-S-#9	GL-S-#10	EXP-S-#11	EQ-S-#12			
Lot ID		408163-1	408163-2	408163-3	408163-4	408163-5	408163-6	408163-7	408163-8	408163-9	408163-10	408163-11	408163-12			
Date Sampled		9/7/2005	9/7/2005	9/7/2005	9/7/2005	9/7/2005	9/7/2005	9/7/2005	9/7/2005	9/7/2005	9/7/2005	9/7/2005	9/7/2005			
Sampled By		D.Cornett	D.Cornett	D.Cornett	D.Cornett	D.Cornett	D.Cornett	D.Cornett	D.Cornett	D.Cornett	D.Cornett	D.Cornett	D.Cornett			
Sample Depth		10cm	10cm	10cm	10cm	10cm	10cm	10cm	10cm	10cm	10cm	10cm	10cm			
Parameter																
Metals (Strong Acid Leachable)																
Antimony	µg/g	260	<1	5.2	8.8	37	45	490	68.1	70.3	87.8	225	148	0.6	40	20
Arsenic	µg/g	305	12.5	44.8	40.2	51	128	765	167	214	291	357	445	0.2	100*	50*
Barium	µg/g	678	370	328	314	488	787	975	1020	1470	1580	1540	1510	0.03	2000	500
Beryllium	µg/g	0.751	0.695	0.698	0.612	0.758	0.81	0.736	0.947	1.64	1.01	0.839	1.05	0.01	8	4
Cadmium	µg/g	2.5	0.2	0.4	0.4	0.5	1.4	5.13	1.3	5.63	3.1	3.4	4.7	0.05	500*	70*
Chromium	µg/g	31.8	19.8	20.9	18.4	25	28.1	28	30.9	40.2	29.3	30.8	27.4	0.04	700*	300*
Cobalt	µg/g	12.8	9.52	6.67	6.3	12.9	12.2	13.1	17.5	24.6	12.1	10.6	14.1	0.05	300	50
Copper	µg/g	47.1	30.8	28.6	26	36.8	38.1	43.2	31.8	71.3	39.7	49.4	46.4	0.05	250*	150*
Lead	µg/g	36.9	35	31.8	66.5	16.6	29.2	33.6	32.4	80	30.3	28.5	46.9	0.3	2000*	1000*
Mercury	µg/g	0.867	0.048	0.043	0.0882	0.107	0.493	1.41	0.59	2.26	1.23	2.31	2.48	0.003	150*	100*
Molybdenum	µg/g	2.6	1.1	1.4	1.4	1	4.4	6.5	1.9	6.6	7.26	5.98	11.3	0.05	40	10
Nickel	µg/g	41.1	20.6	16.1	15.8	39.7	38.8	48	47.3	98	59	44.2	57.3	0.1	500	100
Selenium	µg/g	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.3	10	3
Silver	µg/g	<0.294	<0.3	<0.29	<0.3	<0.29	<0.30	<0.295	<0.29	<0.29	<0.29	<0.295	<0.29	0.2	40	20
Thallium	µg/g	<0.5	<0.5	<0.50	<0.5	<0.5	<0.5	0.61	<0.5	0.51	0.76	0.81	0.3			
Tin	µg/g	0.82	0.83	1	1.2	0.79	1	0.88	1	1.3	1	0.99	1.3	0.2	300	50
Vanadium	µg/g	54.1	34.5	37.8	32.8	35	52.6	61.9	52.4	122	77.4	116	73.6	0.1	None	200
Zinc	µg/g	148	67.8	67.1	69.3	80.3	165	270	147	345	312	241	348	0.1	600*	450*
pH in soil																
pH		7.2	5.6	5	7.1	5.6	6.3	8	6.2	6	5.8	5.4	7.7	0.5		
EPHs																
LEPHs	µg/g	<20	<20	<20	24	<20	49	1370	<20	<20	<20	<20	242	20	2000	1000
HEPHs	µg/g	<20	37	85	97	<20	1090	14400	69	766	22	<20	4160	20	5000	1000
PAHs																
Acenaphthene	µg/g	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05		
Acenaphthylene	µg/g	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05		
Anthracene	µg/g	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05		
Benzo(a)anthracene	µg/g	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	10	1
Benzo(a)pyrene	µg/g	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	10*	1*
Benzo(b)fluoranthene	µg/g	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.33	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	10	1
Benzo(g,h,i)perylene	µg/g	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05		
Benzo(k)fluoranthene	µg/g	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	10	1
Chrysene	µg/g	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05		
Dibenzo(a,h)anthracene	µg/g	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	10	1
Fluoranthene	µg/g	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05		
Fluorene	µg/g	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.24	<0.05	<0.05	<0.05	<0.05	<0.05	0.05		
Indeno(1,2,3-c,d)pyrene	µg/g	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	10	1
Naphthalene	µg/g	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	50	5
Phenanthrene	µg/g	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.53	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	50	5
Pyrene	µg/g	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.12	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	100	10
2-Fluorobiphenyl (%)	%	92	102	107	109	108	103	100	104	102	112	103	96	40-130		
Nitrobenzene-d5 (%)	%	92	89	111	118	105	105	118	112	107	110	103	99	40-130		
p-Terphenyl-d14 (%)	%	48	109	115	116	115	110	108	118	118	119	111	116	40-130		

Notes: * Contaminated Sites Regulation standards for Environmental Protection, toxicity to soil invertebrates and plants
 Yellow highlight indicates result exceeds CSR criteria for industrial site - for grab sample

4.0 DISCUSSION OF RESULTS

All of the 12 samples shown in Table 2 are composite samples and thus the results should be compared to adjusted CSR Guidelines as outlined in the *Protocol for the Contaminated Sites Regulation under the Environment Act: Protocol Three*. This sampling protocol states that composite sample results must be compared to an adjusted CSR guideline calculated by dividing the guideline by the number of aliquots in each composite. The following is the list of exceedances of CSR Industrial Guidelines for metals when using this adjusted measure:

- eight sites exceed antimony standards,
- eight sites exceed arsenic standards,
- seven sites exceed barium standards;
- five sites exceed cobalt standards,
- five sites exceed zinc standards, and
- one site exceeds molybdenum standards.

While these exceedances are higher than the CSR Industrial standards, it must be noted that due to the extensive mineralization in this area high metals levels in the native soil (revegetation growth media) are expected. It should also be noted that only the antimony and arsenic exceedances exceed the non-adjusted guidelines for composite samples. Historical pre-mining soil sampling from 1989-1994 (Appendix C) by Viceroy Minerals Corporation as part of their regional mineral exploration program confirms high levels of antimony and arsenic (the metals with the greatest exceedances). The historical pre-mining exploration data set does not contain information on the other metals that are currently in exceedance. In many instances the background levels are beyond the acceptable levels according to the CSR Industrial standards. The results of the historical sampling show antimony levels exceeding the current CSR Industrial guidelines in the immediate area of four of the eight sites that show current exceedances. Those sites for which historical data does not indicate background exceedances or exist in the immediate area are the Reagent Storage Area (#1), the Lime Silo Storage Area (#8), the Bone Yard Area (#9), and the Golden Lay Down Area (#10). Historical pre-mining data shows background arsenic levels exceeding the CSR Industrial guidelines for five of the eight sites that show current exceedances, only the Reagent Storage Area (#1), the Bone Yard Area (#9), and the Golden Lay Down Area (#10) do not. Appendix C shows the results of the historical sampling on the property, clearly showing that the natural levels of these metals are as

high or higher than the levels shown in 2005. The historical pre-mining exploration sampling shows background level of antimony in excess of 40 times the CSR Industrial standards (1770 μ g/g) in one instance, and background arsenic levels in excess of 150 times the CSR Industrial standards. These native soils were stripped during mine development, stock piled and subsequently used as growth media as part of the reclamation and closure plan. With natural levels in such excess of the current standards, the contamination of the soil after mining operations have ceased must be considered to be primarily from natural mineralization associated with the Brewery Creek geological setting and not related to mining operations.

The hydrocarbon testing results show levels of HEPH in the soil at the Oil Storage Area exceeding the CSR Industrial guidelines. Using composite sampling criteria, the Main Equipment Area also exceeds the adjusted guidelines and must be recognized as contaminated. Prior to construction the Oil Storage Area was constructed with a 30 mil polyethylene liner to prevent any potential spills from contaminating the adjacent areas. Thus this area serves as a land treatment facility (LTF) to remediate the contaminated soil contained within the area.

5.0 CONCLUSION AND RECOMMENDATIONS

The elevated levels of antimony and arsenic are notable for their exceedances of the CSR for Industrial soil criteria, but also notable for their natural exceedances as outlined by the pre-mining exploration sampling collected from 1989-1994. These locations with CSR exceedances show levels no higher than the historical data and thus should not be actively remediated to meet the CSR guidelines. The other metals that are in exceedance of the CSR guidelines do not have historical data to indicate natural levels in excess of the guidelines, but as the area is an extensively mineralized area, higher than usual levels can be expected. While there were exceedances of the adjusted CSR Industrial guidelines, none of these composite samples would exceed the guidelines were they not adjusted as described in Section 4. Thus, if additional sampling is required, non-composite samples should be taken to determine if the high results are due to a single location within the site, as assumed with the adjustment for composite samples, or the levels are spread evenly throughout the entire area.

CSR Industrial guidelines exceedances for HEPH and LEPH occur at one of the sample sites (Oil Storage #) and just HEPH at the other (Equip #) show the need for some additional remediation work. One of the sites, the Oil Storage Area, is already lined and bermed and thus serves as an LTF. The second site that contains high levels of hydrocarbon contaminated soils, the Main Equipment Area, must also be remediated. As the contamination is limited to surface soils, and the area has already been tilled to aid in regeneration, simple addition of fertilizer could speed the natural degradation of the surface hydrocarbons. After sufficient time has elapsed these soils will need to be sampled and tested to confirm they have been remediated.

The following are recommendations for the complete remediation of the soils:

- Additional fertilization and tilling of the Oil Storage Area and the less contaminated Main Equipment Area, in accordance with the approved Viceroy DRP, to speed hydrocarbon remediation; and
- Subsequent re-sampling in these areas for hydrocarbon to confirm soil remediation.

6.0 REFERENCES

ASTM International, *Annual book of ASTM Standards, 2005, Section 11: Water and Environmental Technology, Volume 11.04* (2005)

Viceroy Minerals Corp., *Brewery Creek Mine Decommissioning and Reclamation Plan, Volumes I-IV* (2001), *Decommissioning and Reclamation Plan Executive Summary* (2003)

Yukon Government, *Yukon Environment Act, Contaminated Sites Regulation* (Revised - 2002)

7.0 LIMITATIONS

This report was prepared for the exclusive use of the Alexco Resources Corp. and is based on data and information collected during site investigations. Access Consulting Group has followed standard professional procedures in conducting the soil sampling and in preparing the contents of this report. The material in this report reflects Access Consulting Group's best judgment in light of the information available at the time of the preparation of this report. Any use that a third party makes of this report, or any reliance on decisions to be made based on it, are the responsibility of the third parties. Access Consulting Group accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report. Access Consulting Group believes that the contents of this report are substantively correct.

The information and data contained in this report, including without limitation, the results of any sampling and analyses conducted by Access Consulting Group, are based solely on the conditions observed at the time of the field assessment and have been developed or obtained through the exercise of Access Consulting Group's professional judgment and are set to the best of Access Consulting Group's knowledge, information, and belief. Although every effort has been made to confirm that all such information and data is factual, complete and accurate, Access Consulting Group offers no guarantees or warranties, either expressed or implied, with respect to such information or data.

Access Consulting Group shall not by the act of issuing this report be deemed to have represented that any sampling and analyses conducted by it have been exhaustive or will identify all contaminants or contamination of the site, and persons relying on the results thereof do so at their own risk.

8.0 CLOSURE

Should you have any questions regarding this report, or require further information, please contact the undersigned at Access Consulting Group in Whitehorse, Yukon.

Respectfully submitted and prepared by:

ACCESS CONSULTING GROUP

A registered trade name for Access Mining Consultants Ltd.



Dan D. Cornett, B.Sc., P.Biol., CCEP

Vice President

Appendix A

Soil Sampling Selected Plates

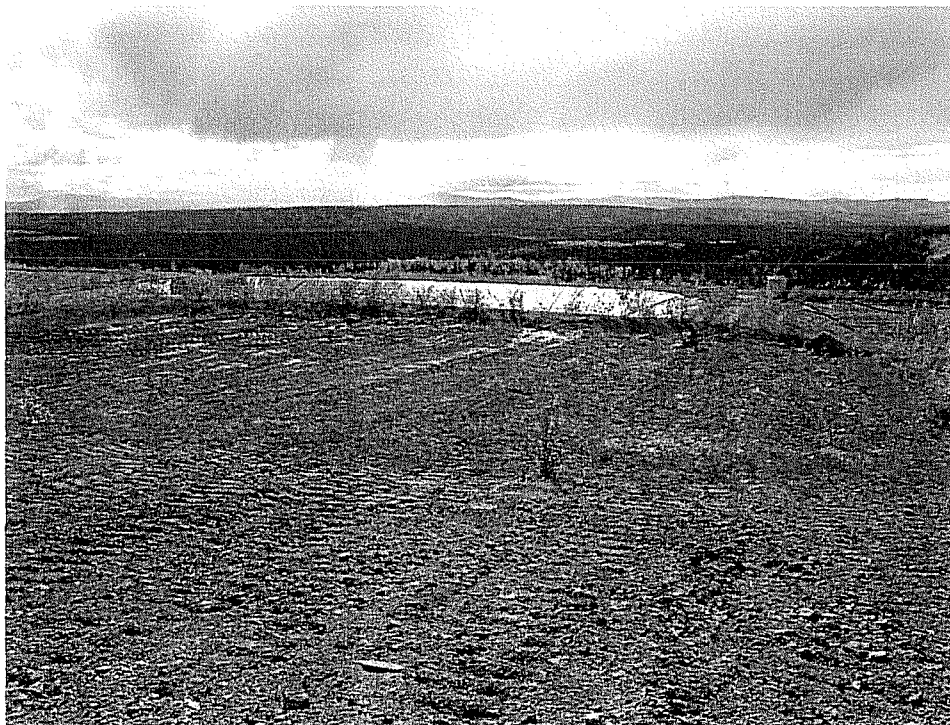


Plate 1. Reagent Storage Area near ADR Plant - Site RA-S-#1



Plate 2. Reagent Storage Area - Site RA-S-#1D.



Plate 3. ADR Plant Fuel Storage Area – Site ADR-S-#2.



Plate 4. Laboratory Area - Site L-S-#3.

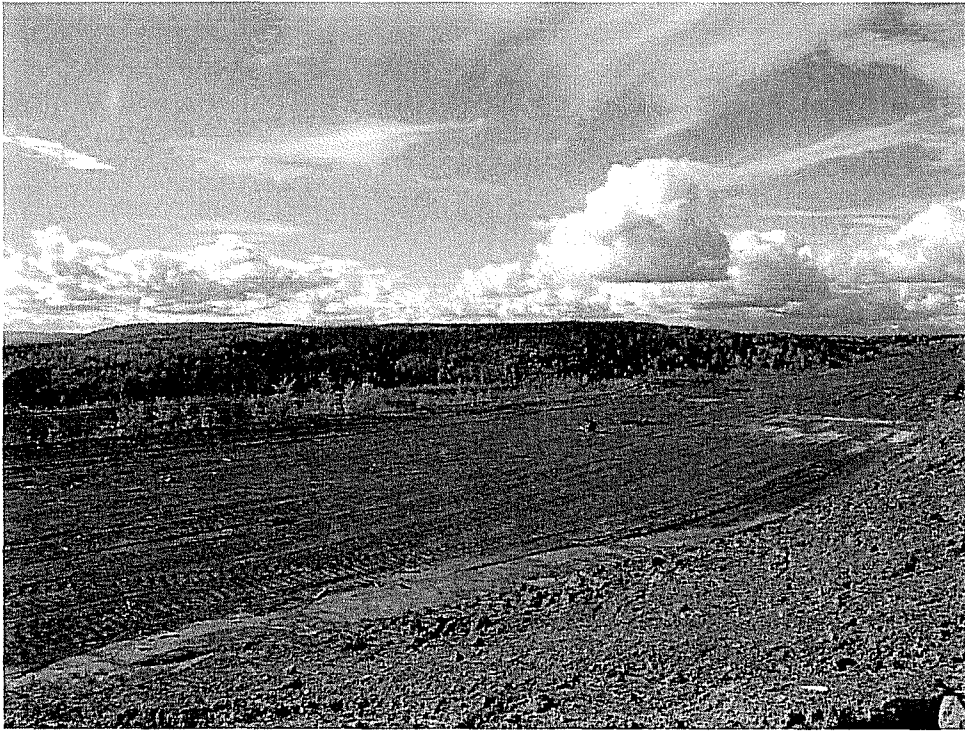


Plate 5. ADR Plant Area - Site ADR-S-#4.



Plate 6. Camp Area - Site C-S-#5.



Plate 7. Camp Area – Sub sample site C-S-#5B.



Plate 8. Main Fuel Storage Area - Site MF-S-#6.



Plate 9. Oil Storage Area (under remediation) – Site OS-S-#7.

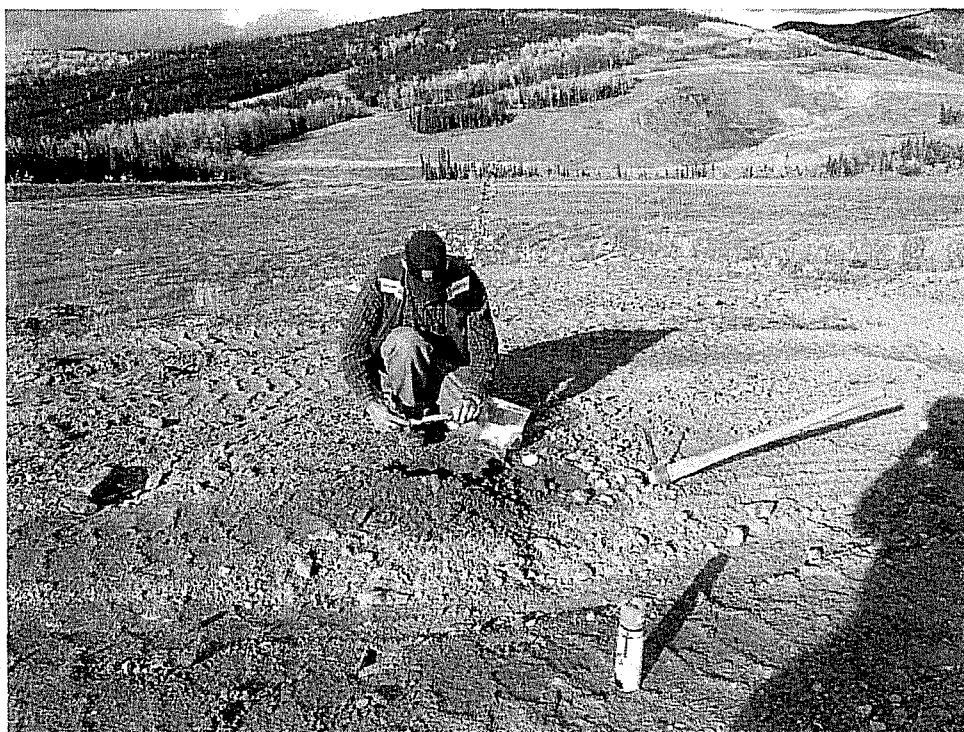


Plate 10. Limo Silo Area - Sub-sample site LS-S-#8B.



Plate 11. Bone Yard Area - Site BY-S-#9.



Plate 12. Golden Lay Down Area - Site GL-S-#10.



Plate 13. Explosive Storage Area - Site EXP-S-#11.



Plate 14. Main Equipment Ready Area – Sub sample EQ-S-#12C.

Appendix B

Norwest Labs Analytical Results



NORWEST LABS

Lot- 408163

Control Number E 01707

Environmental Sample Information Sheet

NOTE Proper completion of this form is required in order to proceed with analysis
See reverse for your nearest Norwest location and proper sampling protocol

Billing Address: Company: <i>ACCESS Consulting Group</i> Address: <i>#3 Colcote Business 151 Industrial Rd Whitehorse, YT Y1A 2V3</i> Attention: <i>D. CORNETT</i> Phone: <i>867-668-6463</i> Fax: <i>867-667-6680</i> Cell: e-mail: <i>dan@accessconsulting.ca</i>	Report To: <input checked="" type="checkbox"/> QA/QC Report <input type="checkbox"/>	Copy of Report To: Company: Address: Attention: Phone: Fax: Cell: e-mail:	Copy of invoice: <input type="checkbox"/> Mail invoice to this address for approval <input type="checkbox"/> Report Result: Fax <input type="checkbox"/> Mail <input type="checkbox"/> Courier <input type="checkbox"/> e-mail <input type="checkbox"/>
Report Result: Fax <input type="checkbox"/> Mail <input checked="" type="checkbox"/> Courier <input type="checkbox"/> e-mail <input checked="" type="checkbox"/>			

Information to be included on Report and Invoice Project ID: <i>BCM</i> Project Name: <i>Alexco - Brewery Creek</i> Project Location: <i>Brewery Creek Mine</i> Legal Location: PO#: Proj. Acct. Code: Agreement ID: <i>68741</i>	RUSH Please contact the laboratory to confirm rush dates and times before submitting samples. Upon filling out this section, client accepts that surcharges will be attached to this analysis Required on: all analyses or as indicated <input type="checkbox"/> or <input type="checkbox"/> Date Required: _____ Signature: _____ Norwest Authorization: _____	Sample Custody (Please Print) Sampled by: <i>D. CORNETT</i> Date <i>Sept 7/05</i> Company <i>ACO</i> Signature <i>[Signature]</i> Relinquished by: <i>D. CORNETT</i> Company <i>ACO</i> Date <i>Sept 12/05</i> Waybill number: Received by: RECEIVED Company _____ Date _____ Processed by: <i>SEP 3 2005</i> Norwest Labs <i>[Signature]</i> Date <i>05</i>
---	---	---

Special Instructions / Comments

250 ml JAR - Composite Sample - mix thoroughly
500g plastic bag - composite sample - mix thoroughly
Call to confirm HC Analyses

Number of Containers	63	CTEH 2	(INCLUDE LEAKS/HAZ)																	
	↓	Enter tests above (✓ relevant samples below)																		

Sample Identification	Location	Depth	Date / Time Sampled	Matrix	Sampling Method	↓	Enter tests above (✓ relevant samples below)													
1 RA-S-#1	Process Area	10cm	Sept 7/05	Soil	Comp	2	✓													
2 ADR-F-S-#2	ADR Fuel	10cm	"	"	"	2	✓													
3 L-S-#3	Lab	"	"	"	"	2	✓													
4 ADR-S-#4	ADR Plant	"	"	"	"	2	✓													
5 C-S-#5	Camp Area	"	"	"	"	2	✓													
6 MF-S-#6	Mining Fuel	"	"	"	"	2	✓													
7 OS-S-#7	Oil Storage	"	"	"	"	2	✓													
8 LS-S-#8	Lime Silo	"	"	"	"	2	✓													
9 BY-S-#9	Bone Yard	"	"	"	"	2	✓													
10 GL-S-#10	Golden Laydown	"	"	"	"	2	✓													
11 EXP-S-#11	Explosive Area	"	"	"	"	2	✓													
12 EQ-S-#12	Equipment Area	"	"	"	"	2	✓													
13																				
14																				



Report Transmission Cover Page

Norwest Labs
 #104, 19575-55 A Ave.
 Surrey, BC. V3S 8P8
 Phone: (604) 514-3322
 Fax: (604) 514-3323

Bill to: Access Mining Consultants Ltd.
Report to: Access Mining Consultants Ltd.
 # 3 Calcite Business Centre
 151 Industrial Road
 Whitehorse, YT, Canada
 Y1A 2V3
 Attn: Dan Cornett
 Sampled By: D.Cornett
 Company: ACG

Project
ID: BCM
Name: Alexco-Brewery Creek
Location: Brewery Creek Mine
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 408163
Control Number: E 01707
Date Received: Sep 13, 2005
Date Reported: Sep 19, 2005
Report Number: 746452

Contact	Company	Address									
Dan Cornett Web Email Notification	Access Mining Consultants Ltd.	# 3 Calcite Business Centre, 151 Industrial Road Whitehorse, YT Y1A 2V3 Phone: (867) 668-6463 Fax: (867) 667-6680 Email: dan@accessconsulting.ca									
<table border="1"> <thead> <tr> <th>Copies</th> <th>Delivery Strategy</th> <th>Format</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Post</td> <td></td> </tr> <tr> <td>A 1</td> <td>Email - Single Report</td> <td>PDF</td> </tr> </tbody> </table>		Copies	Delivery Strategy	Format	1	Post		A 1	Email - Single Report	PDF	
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A 1	Email - Single Report	PDF									
Scott Keeseey Web x Email Notification	Access Mining Consultants Ltd.	# 3 Calcite Business Centre, 151 Industrial Road Whitehorse, YT Y1A 2V3 Phone: (867) 668-6463 Fax: (867) 667-6680 Email: scott@accessconsulting.ca									
<table border="1"> <thead> <tr> <th>Copies</th> <th>Delivery Strategy</th> <th>Format</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table>		Copies	Delivery Strategy	Format							
Copies	Delivery Strategy	Format									

NOTE: P indicates a preliminary report is required
 NOTE: A indicates report is delivered using automated delivery

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Report Transmission Notes

- Agreement Notes
- Lot Notes
- Sample Notes:

Notes to Clients

- Lot Notes:
- Sample Notes:
- Batch Notes:
- Method Notes:
- Method Result Notes:

Reports associated with this Lot

Id/Format/Reported Date	Id/Format/Reported Date	Id/Format/Reported Date
746452 Env2QC 3 Smp & DL 19-Sep-05		

Comment:

See Methodology and Notes page of Analytical Report for all comments pertaining to this report.

If this report transmission is not satisfactory, please send report requirements to the address at the top of this page.

9/19/05 746452 19-Sep-2005



Sample Custody

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Surrey, BC. V3S 8P8
Phone: (604) 514-3322
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Bill to: Access Mining Consultants Ltd.
Report to: Access Mining Consultants Ltd.
3 Calcite Business Centre
151 Industrial Road
Whitehorse, YT, Canada
Y1A 2V3
Attn: Dan Cornett
Sampled By: D.Cornett
Company: ACG

Project
ID: BCM
Name: Alexco-Brewery Creek
Location: Brewery Creek Mine
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 408163
Control Number: E 01707
Date Received: Sep 13, 2005
Date Reported: Sep 19, 2005
Report Number: 746452

Sample Disposal Date: Oct 19, 2005

All samples will be stored until this date unless other instructions are received. Please indicate other requirements below and return this form to the address or fax number on the upper right of this page.

Extend Sample Storage Until (MM/DD/YY)

The following charges apply to extended sample storage:

Table with 2 columns: Storage description and Price. Rows include: Storage for 1 to 5 samples per month (\$ 10.00), Storage for 6 to 20 samples per month (\$ 15.00), Storage for 21 to 50 samples per month (\$ 30.00), Storage for 51 to 200 samples per month (\$ 60.00), Storage for more than 200 samples per month (\$ 110.00)

Return Sample, collect, to the address below via:

- Greyhound
Loomis
Purolator
Other (Specify)

Name:
Company:
Address:
Phone:
Fax:
Signature:

If no other arrangements have been made, samples will be disposed of on Oct 19, 2005.



Analytical Report

Norwest Labs
 #104, 19575-55 A Ave.
 Surrey, BC. V3S 8P8
 Phone: (604) 514-3322
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 151 Industrial Road
 Whitehorse, YT, Canada
 Y1A 2V3
 Attn: Dan Cornett
 Sampled By: D.Cornett
 Company: ACG

Project
 ID: BCM
 Name: Alexco-Brewery Creek
 Location: Brewery Creek Mine
 LSD:
 P.O.:
 Acct. Code:

NWL Lot ID: **408163**
 Control Number: E 01707
 Date Received: Sep 13, 2005
 Date Reported: Sep 19, 2005
 Report Number: 746452

Page: 1 of 17

Analyte	Units	NWL Number 408163-1		408163-2		408163-3	
		Sample Date Sep 07, 2005		Sep 07, 2005		Sep 07, 2005	
		Sample Description RA-S-#1 / Reagent Area / 10cm		ADR-F-S-#2 / ADF Fuel / 10cm		L-S-#3 / Lab / 10cm	
		Matrix	Soil - general	Soil - general	Soil - general	Soil - general	Detection Limit
Metals Strong Acid Digestion							
Antimony	Strong Acid Extractable	ug/g	260	<1	5.2	1	
Arsenic	Strong Acid Extractable	ug/g	306	12.5	44.8	0.5	
Barium	Strong Acid Extractable	ug/g	678	370	328	0.05	
Beryllium	Strong Acid Extractable	ug/g	0.751	0.695	0.698	0.01	
Cadmium	Strong Acid Extractable	ug/g	2.5	0.2	0.4	0.05	
Chromium	Strong Acid Extractable	ug/g	31.8	19.8	20.9	0.1	
Cobalt	Strong Acid Extractable	ug/g	12.8	9.52	6.67	0.1	
Copper	Strong Acid Extractable	ug/g	47.1	30.8	28.6	0.1	
Lead	Strong Acid Extractable	ug/g	36.9	35.0	31.8	0.5	
Mercury	Strong Acid Extractable	ug/g	0.867	0.048	0.043	0.003	
Molybdenum	Strong Acid Extractable	ug/g	2.6	1.1	1.4	0.2	
Nickel	Strong Acid Extractable	ug/g	41.1	20.6	16.1	0.3	
Selenium	Strong Acid Extractable	ug/g	<0.50	<0.50	<0.50	0.5	
Silver	Strong Acid Extractable	ug/g	<0.294	<0.3	<0.29	0.3	
Thallium	Strong Acid Extractable	ug/g	<0.5	<0.5	<0.50	0.5	
Tin	Strong Acid Extractable	ug/g	0.82	0.83	1.0	0.5	
Vanadium	Strong Acid Extractable	ug/g	54.1	34.5	37.8	0.2	
Zinc	Strong Acid Extractable	ug/g	148	67.8	67.1	0.03	
Soil Acidity							
pH	1:2 Soil:Water	pH	7.2	5.6	5.0	0.5	
Extractable Petroleum Hydrocarbons - Soil							
LEPHs	Dry Weight	ug/g	<20	<20	<20	20	
HEPHs	Dry Weight	ug/g	<20	37	85	20	
Polynuclear Aromatic Hydrocarbons - Soil							
Acenaphthene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05	
Acenaphthylene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05	
Anthracene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05	
Benzo(a)anthracene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05	
Benzo(a)pyrene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05	
Benzo(b)fluoranthene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05	
Benzo(g,h,i)perylene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05	
Benzo(k)fluoranthene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05	
Chrysene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05	
Dibenzo(a,h)anthracene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05	



Analytical Report

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 151 Industrial Road
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 Y1A 2V3
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 Sampled By: D.Cornett
 Company: ACG

Project
ID: BCM
Name: Alexco-Brewery Creek
Location: Brewery Creek Mine
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 408163
Control Number: E 01707
Date Received: Sep 13, 2005
Date Reported: Sep 19, 2005
Report Number: 746452

	NWL Number	408163-1	408163-2	408163-3	
	Sample Date	Sep 07, 2005	Sep 07, 2005	Sep 07, 2005	
	Sample Description	RA-S-#1 / Reagent	ADR-F-S-#2 / ADF	L-S-#3 / Lab / 10cm	
		Area / 10cm	Fuel / 10cm		
	Matrix	Soil - general	Soil - general	Soil - general	
Analyte	Units	Results	Results	Results	Detection Limit
Polynuclear Aromatic Hydrocarbons - Soil - Conti					
Fluoranthene	Dry Weight	ug/g	<0.05	<0.05	0.05
Fluorene	Dry Weight	ug/g	<0.05	<0.05	0.05
Indeno(1,2,3-c,d)pyrene	Dry Weight	ug/g	<0.05	<0.05	0.05
Naphthalene	Dry Weight	ug/g	<0.05	<0.05	0.05
Phenanthrene	Dry Weight	ug/g	<0.05	<0.05	0.05
Pyrene	Dry Weight	ug/g	<0.05	<0.05	0.05



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Report Number: 746452

Analyte	Units	408163-4		408163-5		408163-6	
		Matrix	Soil - general	Matrix	Soil - general	Matrix	Soil - general
Metals Strong Acid Digestion							
Antimony	Strong Acid Extractable	ug/g	8.8	37	45	1	
Arsenic	Strong Acid Extractable	ug/g	40.2	51.0	128	0.5	
Barium	Strong Acid Extractable	ug/g	314	488	787	0.05	
Beryllium	Strong Acid Extractable	ug/g	0.612	0.758	0.810	0.01	
Cadmium	Strong Acid Extractable	ug/g	0.4	0.5	1.4	0.05	
Chromium	Strong Acid Extractable	ug/g	18.4	25.0	28.1	0.1	
Cobalt	Strong Acid Extractable	ug/g	6.30	12.9	12.2	0.1	
Copper	Strong Acid Extractable	ug/g	26.0	36.8	38.1	0.1	
Lead	Strong Acid Extractable	ug/g	66.5	16.6	29.2	0.5	
Mercury	Strong Acid Extractable	ug/g	0.0662	0.107	0.493	0.003	
Molybdenum	Strong Acid Extractable	ug/g	1.4	1.0	4.4	0.2	
Nickel	Strong Acid Extractable	ug/g	15.8	39.7	38.8	0.3	
Selenium	Strong Acid Extractable	ug/g	<0.50	<0.50	<0.50	0.5	
Silver	Strong Acid Extractable	ug/g	<0.3	<0.29	<0.30	0.3	
Thallium	Strong Acid Extractable	ug/g	<0.5	<0.5	<0.5	0.5	
Tin	Strong Acid Extractable	ug/g	1.2	0.79	1.0	0.5	
Vanadium	Strong Acid Extractable	ug/g	32.8	35.0	52.6	0.2	
Zinc	Strong Acid Extractable	ug/g	69.3	90.3	165	0.03	
Soil Acidity							
pH	1:2 Soil:Water	pH	7.1	5.8	6.3	0.5	
Extractable Petroleum Hydrocarbons - Soil							
LEPHs	Dry Weight	ug/g	24	<20	49	20	
HEPHs	Dry Weight	ug/g	97	<20	1090	20	
Polynuclear Aromatic Hydrocarbons - Soil							
Acenaphthene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05	
Acenaphthylene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05	
Anthracene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05	
Benzo(a)anthracene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05	
Benzo(a)pyrene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05	
Benzo(b)fluoranthene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05	
Benzo(g,h,i)perylene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05	
Benzo(k)fluoranthene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05	
Chrysene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05	
Dibenzo(a,h)anthracene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05	



Analytical Report

Norwest Labs
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Bill to: Access Mining Consultants Ltd.
Report to: Access Mining Consultants Ltd.
 # 3 Calcite Business Centre
 151 Industrial Road
 Whitehorse, YT, Canada
 Y1A 2V3
 Attn: Dan Cornett
 Sampled By: D.Cornett
 Company: ACG

Project
ID: BCM
Name: Alexco-Brewery Creek
Location: Brewery Creek Mine
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 408163
Control Number: E 01707
Date Received: Sep 13, 2005
Date Reported: Sep 19, 2005
Report Number: 746452

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Analyte	Units	Matrix	NWL Number	408163-4	408163-5	408163-6	Detection Limit
			Sample Date	Sep 07, 2005	Sep 07, 2005	Sep 07, 2005	
		Sample Description	ADR-S-#4 / ADF Plant / 10cm	C-S-#5 / Camp Area / 10cm	MF-S-#6 / Main Fuel / 10cm		
		Matrix	Soil - general	Soil - general	Soil - general		
Polynuclear Aromatic Hydrocarbons - Soil - Conti							
Fluoranthene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05	
Fluorene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05	
Indeno(1,2,3-c,d)pyrene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05	
Naphthalene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05	
Phenanthrene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05	
Pyrene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05	



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 Sampled By: D.Cornett
 Company: ACG

Project ID: BCM
 Name: Alexco-Brewery Creek
 Location: Brewery Creek Mine
 LSD:
 P.O.:
 Acct. Code:

NWL Lot ID: **408163**
 Control Number: E 01707
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Analyte	Units	NWL Number 408163-7		NWL Number 408163-8		NWL Number 408163-9	
		Sample Date Sep 07, 2005		Sample Date Sep 07, 2005		Sample Date Sep 07, 2005	
		Matrix	Soil - general	Matrix	Soil - general	Matrix	Soil - general
		OS-S-#7 / Oil Storage / 10cm	LS-S-#8 / Lime Silo / 10cm	BY-S-#9 / Bone Yard / 10cm			
		Results	Results	Results			Detection Limit
Metals Strong Acid Digestion							
Antimony	Strong Acid Extractable	ug/g	490	68.1	70.3		1
Arsenic	Strong Acid Extractable	ug/g	765	167	214		0.5
Barium	Strong Acid Extractable	ug/g	975	1020	1470		0.05
Beryllium	Strong Acid Extractable	ug/g	0.736	0.947	1.64		0.01
Cadmium	Strong Acid Extractable	ug/g	5.13	1.3	5.63		0.05
Chromium	Strong Acid Extractable	ug/g	28.0	30.9	40.2		0.1
Cobalt	Strong Acid Extractable	ug/g	13.1	17.5	24.6		0.1
Copper	Strong Acid Extractable	ug/g	43.2	31.8	71.3		0.1
Lead	Strong Acid Extractable	ug/g	33.6	32.4	80.0		0.5
Mercury	Strong Acid Extractable	ug/g	1.41	0.590	2.26		0.003
Molybdenum	Strong Acid Extractable	ug/g	6.50	1.9	6.60		0.2
Nickel	Strong Acid Extractable	ug/g	48.0	47.3	98.0		0.3
Selenium	Strong Acid Extractable	ug/g	<0.50	<0.50	<0.50		0.5
Silver	Strong Acid Extractable	ug/g	<0.295	<0.29	<0.29		0.3
Thallium	Strong Acid Extractable	ug/g	0.61	<0.5	<0.5		0.5
Tin	Strong Acid Extractable	ug/g	0.88	1.0	1.3		0.5
Vanadium	Strong Acid Extractable	ug/g	61.9	52.4	122		0.2
Zinc	Strong Acid Extractable	ug/g	270	147	345		0.03
Soil Acidity							
pH	1:2 Soil:Water	pH	8.0	6.2	6.0		0.5
Extractable Petroleum Hydrocarbons - Soil							
LEPHs	Dry Weight	ug/g	1370	<20	<20		20
HEPHs	Dry Weight	ug/g	14400	69	766		20
Polynuclear Aromatic Hydrocarbons - Soil							
Acenaphthene	Dry Weight	ug/g	<0.05	<0.05	<0.05		0.05
Acenaphthylene	Dry Weight	ug/g	<0.05	<0.05	<0.05		0.05
Anthracene	Dry Weight	ug/g	<0.05	<0.05	<0.05		0.05
Benzo(a)anthracene	Dry Weight	ug/g	<0.05	<0.05	<0.05		0.05
Benzo(a)pyrene	Dry Weight	ug/g	<0.05	<0.05	<0.05		0.05
Benzo(b)fluoranthene	Dry Weight	ug/g	0.33	<0.05	<0.05		0.05
Benzo(g,h,i)perylene	Dry Weight	ug/g	<0.05	<0.05	<0.05		0.05
Benzo(k)fluoranthene	Dry Weight	ug/g	<0.05	<0.05	<0.05		0.05
Chrysene	Dry Weight	ug/g	<0.05	<0.05	<0.05		0.05
Dibenzo(a,h)anthracene	Dry Weight	ug/g	<0.05	<0.05	<0.05		0.05



Analytical Report

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 # 3 Calcite Business Centre
 151 Industrial Road
 Whitehorse, YT, Canada
 Y1A 2V3
 Attn: Dan Cornett
 Sampled By: D.Cornett
 Company: ACG

Project
ID: BCM
Name: Alexco-Brewery Creek
Location: Brewery Creek Mine
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 408163
Control Number: E 01707
Date Received: Sep 13, 2005
Date Reported: Sep 19, 2005
Report Number: 746452

Analyte	Units	Matrix	NWL Number	408163-7	408163-8	408163-9	Detection Limit
			Sample Date	Sep 07, 2005	Sep 07, 2005	Sep 07, 2005	
		Sample Description	OS-S-#7 / Oil Storage / 10cm	LS-S-#8 / Lime Silo / 10cm	BY-S-#9 / Bone Yard / 10cm		
		Matrix	Soil - general	Soil - general	Soil - general		
Polynuclear Aromatic Hydrocarbons - Soil - Conti							
Fluoranthene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05	
Fluorene	Dry Weight	ug/g	0.24	<0.05	<0.05	0.05	
Indeno(1,2,3-c,d)pyrene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05	
Naphthalene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05	
Phenanthrene	Dry Weight	ug/g	0.53	<0.05	<0.05	0.05	
Pyrene	Dry Weight	ug/g	0.12	<0.05	<0.05	0.05	



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Analyte	Units	Results	Results	Results	Detection Limit	
						Matrix
Metals Strong Acid Digestion						
Antimony	Strong Acid Extractable	ug/g	87.8	225	148	1
Arsenic	Strong Acid Extractable	ug/g	291	357	445	0.5
Barium	Strong Acid Extractable	ug/g	1580	1540	1510	0.05
Beryllium	Strong Acid Extractable	ug/g	1.01	0.839	1.05	0.01
Cadmium	Strong Acid Extractable	ug/g	3.1	3.4	4.7	0.05
Chromium	Strong Acid Extractable	ug/g	29.3	30.8	27.4	0.1
Cobalt	Strong Acid Extractable	ug/g	12.1	10.6	14.1	0.1
Copper	Strong Acid Extractable	ug/g	39.7	49.4	46.4	0.1
Lead	Strong Acid Extractable	ug/g	30.3	28.5	46.9	0.5
Mercury	Strong Acid Extractable	ug/g	1.23	2.31	2.48	0.003
Molybdenum	Strong Acid Extractable	ug/g	7.26	5.98	11.3	0.2
Nickel	Strong Acid Extractable	ug/g	59.0	44.2	57.3	0.3
Selenium	Strong Acid Extractable	ug/g	<0.50	<0.50	<0.50	0.5
Silver	Strong Acid Extractable	ug/g	<0.29	<0.295	<0.29	0.3
Thallium	Strong Acid Extractable	ug/g	0.51	0.76	0.81	0.5
Tin	Strong Acid Extractable	ug/g	1.0	0.99	1.3	0.5
Vanadium	Strong Acid Extractable	ug/g	77.4	116	73.6	0.2
Zinc	Strong Acid Extractable	ug/g	312	241	348	0.03
Soil Acidity						
pH	1:2 Soil:Water	pH	5.8	5.4	7.7	0.5
Extractable Petroleum Hydrocarbons - Soil						
LEPHs	Dry Weight	ug/g	<20	<20	242	20
HEPHs	Dry Weight	ug/g	22	<20	4160	20
Polynuclear Aromatic Hydrocarbons - Soil						
Acenaphthene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Acenaphthylene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Anthracene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Benzo(a)anthracene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Benzo(a)pyrene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Benzo(b)fluoranthene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Benzo(g,h,i)perylene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Benzo(k)fluoranthene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Chrysene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05
Dibenzo(a,h)anthracene	Dry Weight	ug/g	<0.05	<0.05	<0.05	0.05



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 Whitehorse, YT, Canada
 Y1A 2V3
 Attn: Dan Cornett
 Sampled By: D.Cornett
 Company: ACG

Project
 ID: BCM
 Name: Alexco-Brewery Creek
 Location: Brewery Creek Mine
 LSD:
 P.O.:
 Acct. Code:

NWL Lot ID: **408163**
 Control Number: E 01707
 Date Received: Sep 13, 2005
 Date Reported: Sep 19, 2005
 Report Number: 746452

NWL Number	408163-10	408163-11	408163-12
Sample Date	Sep 07, 2005	Sep 07, 2005	Sep 07, 2005
Sample Description	GL-S-#10 / Golden Laydown / 10cm	EXP-S-#11 / Explosive Area / 10cm	EQ-S-#12 / Equipment Area / 10cm
Matrix	Soil - general	Soil - general	Soil - general

Analyte	Units	Results	Results	Results	Detection Limit
Polynuclear Aromatic Hydrocarbons - Soil - Conti					
Fluoranthene	Dry Weight	ug/g	<0.05	<0.05	0.05
Fluorene	Dry Weight	ug/g	<0.05	<0.05	0.05
Indeno(1,2,3-c,d)pyrene	Dry Weight	ug/g	<0.05	<0.05	0.05
Naphthalene	Dry Weight	ug/g	<0.05	<0.05	0.05
Phenanthrene	Dry Weight	ug/g	<0.05	<0.05	0.05
Pyrene	Dry Weight	ug/g	<0.05	<0.05	0.05

Approved by:

Marie England
 Consulting Scientist



Quality Control

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 Company: ACG

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Name: Alexco-Brewery Creek
Location: Brewery Creek Mine
LSD:
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NWL Lot ID: 408163
Control Number: E 01707
Date Received: Sep 13, 2005
Date Reported: Sep 19, 2005
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Blanks	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
VHs6-oXylene	ug/g		0	-2	2	✓
VHsoXylene-10	ug/g		0.0	-2.0	2.0	✓
Material Used: Method Blank - VPH(Sry)						
Date Acquired: Sep 14, 2005						
Acquired By:						
Calibration Check	Units	Measured	Target	% Recovery	Criteria (%)	Passed QC
2-Fluorobiphenyl	%	99.0	100	99	80-120	✓
Nitrobenzene-d5	%	93.6	100	94	80-120	✓
p-Terphenyl-d14	%	99.0	100	99	80-120	✓
Material Used: Calibration Check - PAH(Sry)						
Date Acquired: Sep 13, 2005						
Acquired By: Sandra Chu						
Certified Reference Material	Units	Measured	Target	Lower Limit	Upper Limit	Passed QC
2-Fluorobiphenyl	%	11		0	0	✓
Nitrobenzene-d5	%	NA		0	0	✓
p-Terphenyl-d14	%	12		0	0	✓
Material Used: BCRM2005-PAH						
Date Acquired: Sep 13, 2005						
Acquired By: Sandra Chu						
Replicates	Units	Replicate1	Replicate2	% RSD Criteria	Absolute Criteria	Passed QC
2-Fluorobiphenyl	%	93	95	60	0	✓
Nitrobenzene-d5	%	86	91	60	0	✓
p-Terphenyl-d14	%	97	100	60	0	✓
Material Used: Matrix Spike Duplicate 2 - PAH(Sry)						
Date Acquired: Sep 13, 2005						
Acquired By: Sandra Chu						
Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
2-Fluorobiphenyl	%	112	85	40	130	✓
Nitrobenzene-d5	%	101	85	40	130	✓
p-Terphenyl-d14	%	109	85	40	130	✓
Material Used: Matrix Spike - PAH(Sry)						
Date Acquired: Sep 13, 2005						
Acquired By: Sandra Chu						



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Location: Brewery Creek Mine
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NWL Lot ID: 408163
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Metals Strong Acid Digestion

Blanks	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Antimony	ug/g	<1	0.000	-0.030	0.030	✓
Arsenic	ug/g	<0.5	0.000	-0.009	0.009	✓
Barium	ug/g	<0.05	0.000	-0.011	0.011	✓
Beryllium	ug/g	<0.01	0.000	-0.001	0.001	✓
Cadmium	ug/g	<0.05	0.000	-0.003	0.003	✓
Chromium	ug/g	<0.1	0.000	-0.004	0.004	✓
Cobalt	ug/g	<0.1	0.000	-0.003	0.003	✓
Copper	ug/g	<0.1	0.000	-0.003	0.003	✓
Lead	ug/g	<0.5	0.000	-0.030	0.030	✓
Molybdenum	ug/g	<0.2	0.00	-0.01	0.01	✓
Nickel	ug/g	<0.3	0.000	-0.006	0.006	✓
Selenium	ug/g	<0.5	0.000	-0.030	0.030	✓
Silver	ug/g	<0.3	0.000	-0.009	0.009	✓
Tin	ug/g	<0.5	0.000	-0.010	0.010	✓
Vanadium	ug/g	<0.2	0.000	-0.006	0.006	✓
Zinc	ug/g	0.2	0.000	-0.004	0.004	✓

Material Used: Metals Blank - soils
 Date Acquired: Sep 15, 2005
 Acquired By: Kelly Restiaux

Replicates	Units	Replicate1	Replicate2	% RSD Criteria	Absolute Criteria	Passed QC
Antimony	ug/g	68.1	64.6	30.000	3.000	✓
Arsenic	ug/g	167	143	30.000	0.200	✓
Barium	ug/g	1020	838	30.000	0.005	✓
Beryllium	ug/g	0.947	0.952	30.000	0.005	✓
Cadmium	ug/g	1.3	1.2	30.000	0.005	✓
Chromium	ug/g	30.9	32.8	30.000	0.050	✓
Cobalt	ug/g	17.5	17.2	30.000	0.050	✓
Copper	ug/g	31.8	32.8	30.000	0.050	✓
Lead	ug/g	32.4	32.7	30.000	0.100	✓
Molybdenum	ug/g	1.9	1.8	30.00	0.14	✓
Nickel	ug/g	47.3	49.4	30.000	0.050	✓
Selenium	ug/g	<0.50	<0.50	30.000	0.500	✓
Silver	ug/g	<0.29	<0.29	30.000	0.050	✓
Tin	ug/g	1.0	1.1	30.000	0.100	✓
Vanadium	ug/g	52.4	51.2	30.000	0.020	✓
Zinc	ug/g	147	149	30.000	0.050	✓

Material Used: Metals Int. Duplicate - soils
 Date Acquired: Sep 15, 2005
 Acquired By: Kelly Restiaux



Quality Control

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 Sampled By: D.Cornett
 Company: ACG

Project
 ID: BCM
 Name: Alexco-Brewery Creek
 Location: Brewery Creek Mine
 LSD:
 P.O.:
 Acct. Code:

NWL Lot ID: **408163**
 Control Number: E 01707
 Date Received: Sep 13, 2005
 Date Reported: Sep 19, 2005
 Report Number: 746452

Metals Strong Acid Digestion (Continued...)

Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Antimony	ug/g	<1	5.300	-0.700	11.300	✓
Arsenic	ug/g	9.80	11.000	-4.000	26.000	✓
Barium	ug/g	74.8	79.000	68.500	89.500	✓
Beryllium	ug/g	0.527	0.380	-0.100	0.860	✓
Chromium	ug/g	29.5	24.800	18.800	30.800	✓
Cobalt	ug/g	13.6	10.700	8.600	12.800	✓
Copper	ug/g	45.8	42.000	30.000	54.000	✓
Lead	ug/g	15.3	10.900	1.900	19.900	✓
Mercury	ug/g	0.104	0.092	0.077	0.107	✓
Molybdenum	ug/g	0.4	1.30	0.28	2.32	✓
Nickel	ug/g	18.8	15.000	12.600	17.400	✓
Selenium	ug/g	<0.50	0.000	-0.600	0.600	✓
Silver	ug/g	<0.293	0.200	-0.220	0.620	✓
Thallium	ug/g	<0.5	0.000	-1.980	1.980	✓
Vanadium	ug/g	57.6	47.900	23.900	71.900	✓
Zinc	ug/g	70.5	61.400	37.400	85.400	✓
Material Used: S0525 CANMET TILL-1 - metals in soil						
Date Acquired: Sep 15, 2005						
Acquired By: Kelly Restiaux						
Antimony	ug/g	8.6	9.800	3.800	15.800	✓
Arsenic	ug/g	90.3	91.800	76.800	106.800	✓
Barium	ug/g	182	192.000	162.000	222.000	✓
Beryllium	ug/g	0.996	0.970	-0.230	2.170	✓
Cadmium	ug/g	40.5	35.000	26.000	44.000	✓
Chromium	ug/g	21.5	19.000	13.000	25.000	✓
Cobalt	ug/g	8.21	7.500	5.400	9.600	✓
Copper	ug/g	109	99.000	69.000	129.000	✓
Lead	ug/g	1120	1134.000	834.000	1434.000	✓
Mercury	ug/g	6.28	6.250	5.680	6.820	✓
Molybdenum	ug/g	1.1	2.30	-3.70	8.30	✓
Nickel	ug/g	16.7	15.000	10.500	19.500	✓
Selenium	ug/g	<0.50	1.500	0.000	3.000	✓
Silver	ug/g	3.6	3.800	1.700	5.900	✓
Thallium	ug/g	1.7	0.000	-1.980	1.980	✓
Tin	ug/g	2.2	3.600	0.600	6.600	✓
Vanadium	ug/g	45.6	39.000	27.000	51.000	✓
Zinc	ug/g	318	294.000	204.000	384.000	✓
Material Used: S0529 NIST 2711 - metals in soil						
Date Acquired: Sep 15, 2005						
Acquired By: Kelly Restiaux						



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 Fax: (604) 514-3323

Bill to: Access Mining Consultants Ltd.
Report to: Access Mining Consultants Ltd.
 # 3 Calcite Business Centre
 151 Industrial Road
 Whitehorse, YT, Canada
 Y1A 2V3
 Attn: Dan Cornett
 Sampled By: D.Cornett
 Company: ACG

Project
ID: BCM
Name: Alexco-Brewery Creek
Location: Brewery Creek Mine
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 408163
Control Number: E 01707
Date Received: Sep 13, 2005
Date Reported: Sep 19, 2005
Report Number: 746452

Soil Acidity

Calibration Check	Units	Measured	Target	% Recovery	Criteria (%)	Passed QC
pH	pH	8.1	8.0	100.6	98.5-101.5	✓
Material Used:	s2013 - pH					
Date Acquired:	Sep 15, 2005					
Acquired By:	Virginia Thomson					
Replicates	Units	Replicate1	Replicate2	% RSD Criteria	Absolute Criteria	Passed QC
pH	pH	7.1	7.1		0.1	✓
Material Used:	Surrey - Int. Duplicate 1					
Date Acquired:	Sep 15, 2005					
Acquired By:	Virginia Thomson					
Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
pH	pH	6.0	6.1	5.9	6.3	✓
Material Used:	Soil pH					
Date Acquired:	Sep 15, 2005					
Acquired By:	Virginia Thomson					

Mono-Aromatic Hydrocarbons - Soil

Blanks	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Benzene	ug/g		0.00	-0.02	0.02	✓
Toluene	ug/g		0.00	-0.02	0.02	✓
Ethylbenzene	ug/g		0.00	-0.02	0.02	✓
o-Xylene	ug/g		0.00	-0.02	0.02	✓
m,p-Xylene	ug/g		0.00	-0.02	0.02	✓
Total Xylenes (m,p,o)	ug/g		0.00	-0.02	0.02	✓
Styrene	ug/g		0.00	-0.02	0.02	✓
Methyl t-Butyl Ether	ug/g		0.00	-0.02	0.02	✓
Material Used:	Method Blank - VPH(Sry)					
Date Acquired:	Sep 14, 2005					
Acquired By:						
Calibration Check	Units	Measured	Target	% Recovery	Criteria (%)	Passed QC
Benzene	ng		100.00		80.99-121.01	✓
Toluene	ng		100.00		83.99-124.01	✓
Ethylbenzene	ng		100.00		88.99-129.01	✓
o-Xylene	ng		100.00		79.99-120.01	✓
m,p-Xylene	ng		200.00		79.99-120.01	✓
Total Xylenes (m,p,o)	ng		300.00		79.99-120.01	✓
Styrene	ng		100.00		72.99-113.01	✓
Methyl t-Butyl Ether	ng		100.00		79.99-120.01	✓
Material Used:	Calibration Check - BTEX(Sry)					
Date Acquired:	Sep 14, 2005					
Acquired By:						



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 # 3 Calcite Business Centre
 151 Industrial Road
 Whitehorse, YT, Canada
 Y1A 2V3
 Attn: Dan Cornett
 Sampled By: D.Cornett
 Company: ACG

Project
ID: BCM
Name: Alexco-Brewery Creek
Location: Brewery Creek Mine
LSID:
P.O.:
Acct. Code:

NWL Lot ID: 408163
Control Number: E 01707
Date Received: Sep 13, 2005
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Report Number: 746452

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Volatile Petroleum Hydrocarbons - Soil

Blanks	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
VHs6-10	ug/g		0	-2	2	✓
VPHs (VHs6-10 minus BTEX)	ug/g		0	-2	2	✓
Material Used: Method Blank - VPH(Sry)						
Date Acquired: Sep 14, 2005						
Acquired By:						
Calibration Check	Units	Measured	Target	% Recovery	Criteria (%)	Passed QC
VHs6-10	ng		1000		80-120	✓
VPHs (VHs6-10 minus BTEX)	ng		1000		80-120	✓
Material Used: Calibration Check - BTEX(Sry)						
Date Acquired: Sep 14, 2005						
Acquired By:						

Extractable Petroleum Hydrocarbons - Soil

Blanks	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
EPHs10-19	ug/g	<20	0	-20	20	✓
EPHs19-32	ug/g	<20	0	-20	20	✓
Material Used: Method Blank - EPH						
Date Acquired: Sep 14, 2005						
Acquired By: Sandra Chu						
Calibration Check	Units	Measured	Target	% Recovery	Criteria (%)	Passed QC
EPHs10-19	ug/mL	52376.6	49540	106	80-120	✓
EPHs19-32	ug/mL	52379.9	49450	106	80-120	✓
Material Used: Calibration Check - EPH						
Date Acquired: Sep 14, 2005						
Acquired By: Sandra Chu						
Replicates	Units	Replicate1	Replicate2	% RSD Criteria	Absolute Criteria	Passed QC
EPHs10-19	ug/g	1100	949	60	100	✓
EPHs19-32	ug/g	188	164	60	100	✓
Material Used: Matrix Spike Duplicate 2 - EPH						
Date Acquired: Sep 14, 2005						
Acquired By: Sandra Chu						
Matrix Spike	Units	Measured	Actual	% Recovery	Criteria (%)	Passed QC
EPHs10-19	ug/g		24870	114	88-128	✓
EPHs19-32	ug/g	27400	25560	107	88-128	✓
Material Used: Matrix Spike - EPH						
Date Acquired: Sep 14, 2005						
Acquired By: Sandra Chu						



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3 Calcite Business Centre
151 Industrial Road
Whitehorse, YT, Canada
Y1A 2V3
Attn: Dan Cornett
Sampled By: D.Cornett
Company: ACG

Project
ID: BCM
Name: Alexco-Brewery Creek
Location: Brewery Creek Mine
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 408163
Control Number: E 01707
Date Received: Sep 13, 2005
Date Reported: Sep 19, 2005
Report Number: 746452

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Polynuclear Aromatic Hydrocarbons - Soil

Blanks	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Acenaphthene	ug/g	<0.05	0.00	-0.05	0.05	✓
Acenaphthylene	ug/g	<0.05	0.00	-0.05	0.05	✓
Anthracene	ug/g	<0.05	0.00	-0.05	0.05	✓
Benzo(a)anthracene	ug/g	<0.05	0.00	-0.05	0.05	✓
Benzo(a)pyrene	ug/g	<0.05	0.00	-0.05	0.05	✓
Benzo(b)fluoranthene	ug/g	<0.05	0.00	-0.05	0.05	✓
Benzo(g,h,i)perylene	ug/g	<0.05	0.00	-0.05	0.05	✓
Benzo(k)fluoranthene	ug/g	<0.05	0.00	-0.05	0.05	✓
Chrysene	ug/g	<0.05	0.00	-0.05	0.05	✓
Dibenzo(a,h)anthracene	ug/g	<0.05	0.00	-0.05	0.05	✓
Fluoranthene	ug/g	<0.05	0.00	-0.05	0.05	✓
Fluorene	ug/g	<0.05	0.00	-0.05	0.05	✓
Indeno(1,2,3-c,d)pyrene	ug/g	<0.05	0.00	-0.05	0.05	✓
Naphthalene	ug/g	<0.05	0.00	-0.05	0.05	✓
Phenanthrene	ug/g	<0.05	0.00	-0.05	0.05	✓
Pyrene	ug/g	<0.05	0.00	-0.05	0.05	✓

Material Used: Method Blank - PAH(Sry)
Date Acquired: Sep 13, 2005
Acquired By: Sandra Chu

Calibration Check	Units	Measured	Target	% Recovery	Criteria (%)	Passed QC
Acenaphthene	ng/mL	989.0	1000.00	98.90	79.99-120.01	✓
Acenaphthylene	ng/mL	982.0	1000.00	98.20	79.99-120.01	✓
Anthracene	ng/mL	1000.0	1000.00	100.00	79.99-120.01	✓
Benzo(a)anthracene	ng/mL	970.0	1000.00	97.00	79.99-120.01	✓
Benzo(a)pyrene	ng/mL	1000.0	1000.00	100.00	79.99-120.01	✓
Benzo(b)fluoranthene	ng/mL	1000.0	1000.00	100.00	79.99-120.01	✓
Benzo(g,h,i)perylene	ng/mL	1000.0	1000.00	100.00	79.99-120.01	✓
Benzo(k)fluoranthene	ng/mL	1010.0	1000.00	101.00	79.99-120.01	✓
Chrysene	ng/mL	972.0	1000.00	97.20	79.99-120.01	✓
Dibenzo(a,h)anthracene	ng/mL	1010.0	1000.00	101.00	79.99-120.01	✓
Fluoranthene	ng/mL	1000.0	1000.00	100.00	79.99-120.01	✓
Fluorene	ng/mL	989.0	1000.00	98.90	79.99-120.01	✓
Indeno(1,2,3-c,d)pyrene	ng/mL	999.0	1000.00	99.90	79.99-120.01	✓
Naphthalene	ug/mL	987.0	1000.00	98.70	79.99-120.01	✓
Phenanthrene	ng/mL	1010.0	1000.00	101.00	79.99-120.01	✓
Pyrene	ng/mL	1010.0	1000.00	101.00	79.99-120.01	✓

Material Used: Calibration Check - PAH(Sry)
Date Acquired: Sep 13, 2005
Acquired By: Sandra Chu



Quality Control

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 151 Industrial Road
 Whitehorse, YT, Canada
 Y1A 2V3
 Attn: Dan Cornett
 Sampled By: D.Cornett
 Company: ACG

Project
ID: BCM
Name: Alexco-Brewery Creek
Location: Brewery Creek Mine
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 408163
Control Number: E 01707
Date Received: Sep 13, 2005
Date Reported: Sep 19, 2005
Report Number: 746452

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Polynuclear Aromatic Hydrocarbons - Soil (Continued...)

Certified Reference Material	Units	Measured	Target	Lower Limit	Upper Limit	Passed QC
Acenaphthene	ug/g	0.64		0.00	0.00	✓
Acenaphthylene	ug/g	0.70		0.00	0.00	✓
Anthracene	ug/g	1.03		0.00	0.00	✓
Benzo(a)anthracene	ug/g	3.80		0.00	0.00	✓
Benzo(a)pyrene	ug/g	1.74		0.00	0.00	✓
Benzo(b)fluoranthene	ug/g	3.12		0.00	0.00	✓
Benzo(g,h,i)perylene	ug/g	1.18		0.00	0.00	✓
Benzo(k)fluoranthene	ug/g	0.98		0.00	0.00	✓
Chrysene	ug/g	2.44		0.00	0.00	✓
Dibenzo(a,h)anthracene	ug/g	0.32		0.00	0.00	✓
Fluoranthene	ug/g	7.47		0.00	0.00	✓
Fluorene	ug/g	1.19		0.00	0.00	✓
Indeno(1,2,3-c,d)pyrene	ug/g	1.85		0.00	0.00	✓
Naphthalene	ug/g	5.29		0.00	0.00	✓
Phenanthrene	ug/g	5.18		0.00	0.00	✓
Pyrene	ug/g	6.48		0.00	0.00	✓

Material Used: BCRM2005-PAH
 Date Acquired: Sep 13, 2005
 Acquired By: Sandra Chu

Replicates	Units	Replicate1	Replicate2	% RSD Criteria	Absolute Criteria	Passed QC
Acenaphthene	ug/g	<0.05	<0.05	60.00	0.25	✓
Acenaphthylene	ug/g	<0.05	<0.05	60.00	0.25	✓
Anthracene	ug/g	<0.05	<0.05	60.00	0.25	✓
Benzo(a)anthracene	ug/g	<0.05	<0.05	60.00	0.25	✓
Benzo(a)pyrene	ug/g	<0.05	<0.05	60.00	0.25	✓
Benzo(b)fluoranthene	ug/g	<0.05	<0.05	60.00	0.25	✓
Benzo(g,h,i)perylene	ug/g	<0.05	<0.05	60.00	0.25	✓
Benzo(k)fluoranthene	ug/g	<0.05	<0.05	60.00	0.25	✓
Chrysene	ug/g	<0.05	<0.05	60.00	0.25	✓
Dibenzo(a,h)anthracene	ug/g	<0.05	<0.05	60.00	0.25	✓
Fluoranthene	ug/g	<0.05	<0.05	60.00	0.25	✓
Fluorene	ug/g	<0.05	<0.05	60.00	0.25	✓
Indeno(1,2,3-c,d)pyrene	ug/g	<0.05	<0.05	60.00	0.25	✓
Naphthalene	ug/g	<0.05	<0.05	60.00	0.25	✓
Phenanthrene	ug/g	0.07	0.07	60.00	0.25	✓
Pyrene	ug/g	<0.05	<0.05	60.00	0.25	✓

Material Used: Matrix Spike Duplicate 2 - PAH(Sry)
 Date Acquired: Sep 13, 2005
 Acquired By: Sandra Chu



Quality Control

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Bill to: Access Mining Consultants Ltd.
Report to: Access Mining Consultants Ltd.
3 Calcite Business Centre
151 Industrial Road
Whitehorse, YT, Canada
Y1A 2V3
Attn: Dan Cornett
Sampled By: D.Cornett
Company: ACG

Project
ID: BCM
Name: Alexco-Brewery Creek
Location: Brewery Creek Mine
LSD:
P.O.:
Acct. Code:

NWL Lot ID: **408163**
Control Number: E 01707
Date Received: Sep 13, 2005
Date Reported: Sep 19, 2005
Report Number: 746452

Page: 16 of 17

Polynuclear Aromatic Hydrocarbons - Soil (Continued...)

Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Acenaphthene	ug/g	94.1	90.00	50.01	129.99	✓
Acenaphthylene	ug/g	88.7	90.00	50.01	129.99	✓
Anthracene	ug/g	81.0	90.00	50.01	129.99	✓
Benzo(a)anthracene	ug/g	89.4	90.00	50.01	129.99	✓
Benzo(a)pyrene	ug/g	89.9	90.00	50.01	129.99	✓
Benzo(b)fluoranthene	ug/g	95.5	90.00	50.01	129.99	✓
Benzo(g,h,i)perylene	ug/g	95.4	90.00	50.01	129.99	✓
Benzo(k)fluoranthene	ug/g	106	90.00	50.01	129.99	✓
Chrysene	ug/g	105	90.00	50.01	129.99	✓
Dibenzo(a,h)anthracene	ug/g	78.5	90.00	50.01	129.99	✓
Fluoranthene	ug/g	95.4	90.00	50.01	129.99	✓
Fluorene	ug/g	95.3	90.00	50.01	129.99	✓
Indeno(1,2,3-c,d)pyrene	ug/g	72.8	90.00	50.01	129.99	✓
Naphthalene	ug/g	100	90.00	50.01	129.99	✓
Phenanthrene	ug/g	95.7	90.00	50.01	129.99	✓
Pyrene	ug/g	95.1	90.00	50.01	129.99	✓

Material Used: Matrix Spike - PAH(Sry)
Date Acquired: Sep 13, 2005
Acquired By: Sandra Chu



Methodology and Notes

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Method of Analysis:

MethodName	Reference	Method	Date Analysis Started	Location
EPH - Soil	B.C. Ministry of WLAP	* EPH in Solids by GC/FID (Dec. 31, 2000), F086	14-Sep-05	Norwest Labs Surrey
EPH - Soil	B.C. Ministry of WLAP	* EPH in Solids by GC/FID (Dec. 31, 2000), F086	14-Sep-05	Norwest Labs Surrey
Metals (Strong Acid Leachable) in soils	B.C. Ministry of WLAP	* Strong Acid Leachable Metals (SALM) in Soil, V 1.0, SALM	16-Sep-05	Norwest Labs Surrey
PAH - Soil (Surrey)	B.C. Ministry of WLAP	* PAHs in Soil by GC/MS/SIM (November 2002), PAH	14-Sep-05	Norwest Labs Surrey
PAH - Soil (Surrey)	B.C. Ministry of WLAP	* PAHs in Soil by GC/MS/SIM (November 2002), PAH	14-Sep-05	Norwest Labs Surrey
PAH - Soil (Surrey)	US EPA	* Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry, 8270	14-Sep-05	Norwest Labs Surrey
PAH - Soil (Surrey)	US EPA	* Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry, 8270	14-Sep-05	Norwest Labs Surrey
pH and EC in Soil - 1:2 (Surrey)	McKeague	* 1:2 Soil:Water Ratio, 4.12	15-Sep-05	Norwest Labs Surrey

* Norwest method(s) is based on reference method

References:

B.C. Ministry of WLAP	B.C. Ministry of Water, Land and Air Protection
McKeague	Manual on Soil Sampling and Methods of Analysis
US EPA	US Environmental Protection Agency Test Methods

Comments:

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Hydrocarbon Chromatogram

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Agri-Food & Environmental Group
 Calgary Edmonton Winnipeg Lethbridge Surrey

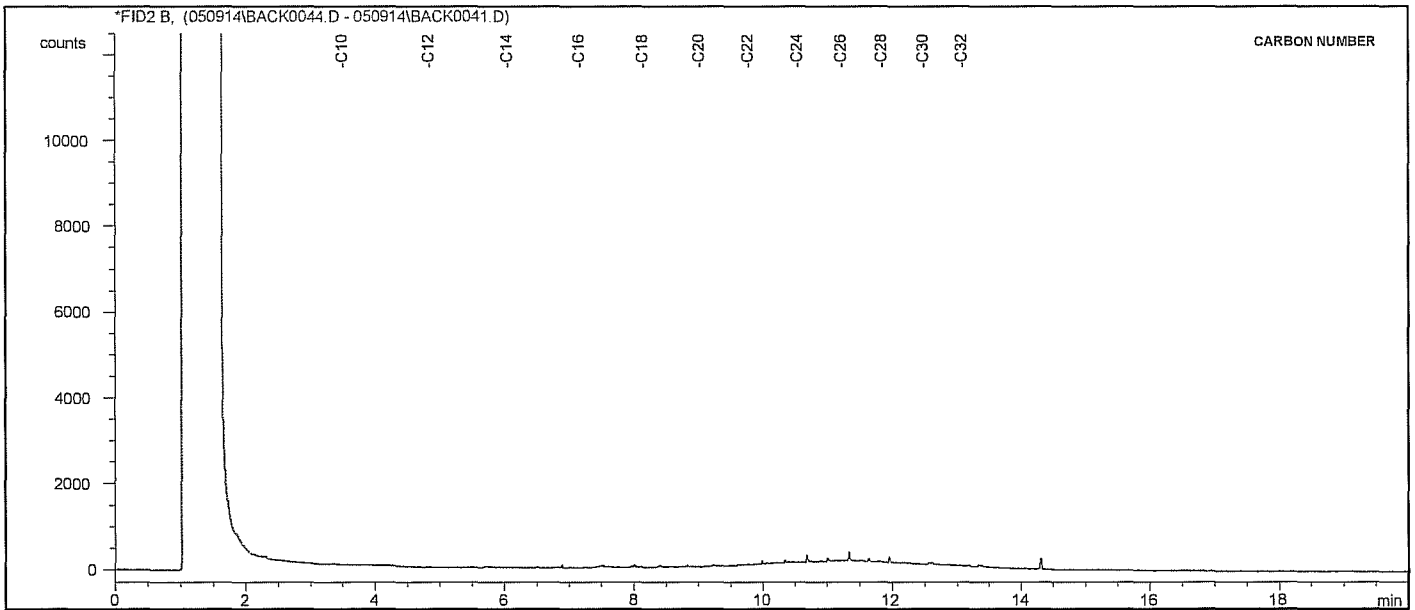
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 ACG

Project ID: BCM
 Name: Alexco-Brewery Creek
 Location: Brewery Creek Mine
 LSD:
 P.O.:

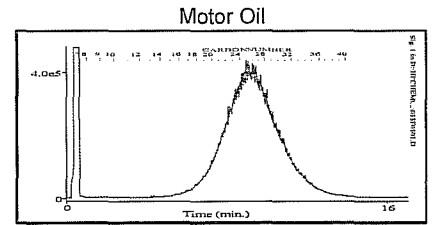
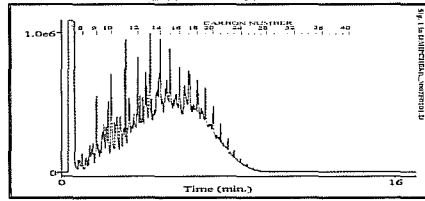
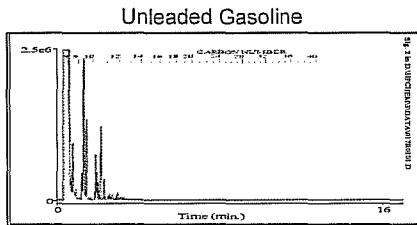
NWL Lot ID: 408163
 Control Number: E 01707
 Date Received: Sep 13, 2005
 Date Reported:

NWL Number: 408163-1
 Sample Date: Sep 7, 2005

Sample Description: Reagent Area RA-S-#1
 10cm



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline C4-C12
 Varsol C8-C12

Kerosene C7-C16
 Diesel C8-C22

Lubricating Oils C20-C40
 Crude Oils C3-C60+



Hydrocarbon Chromatogram

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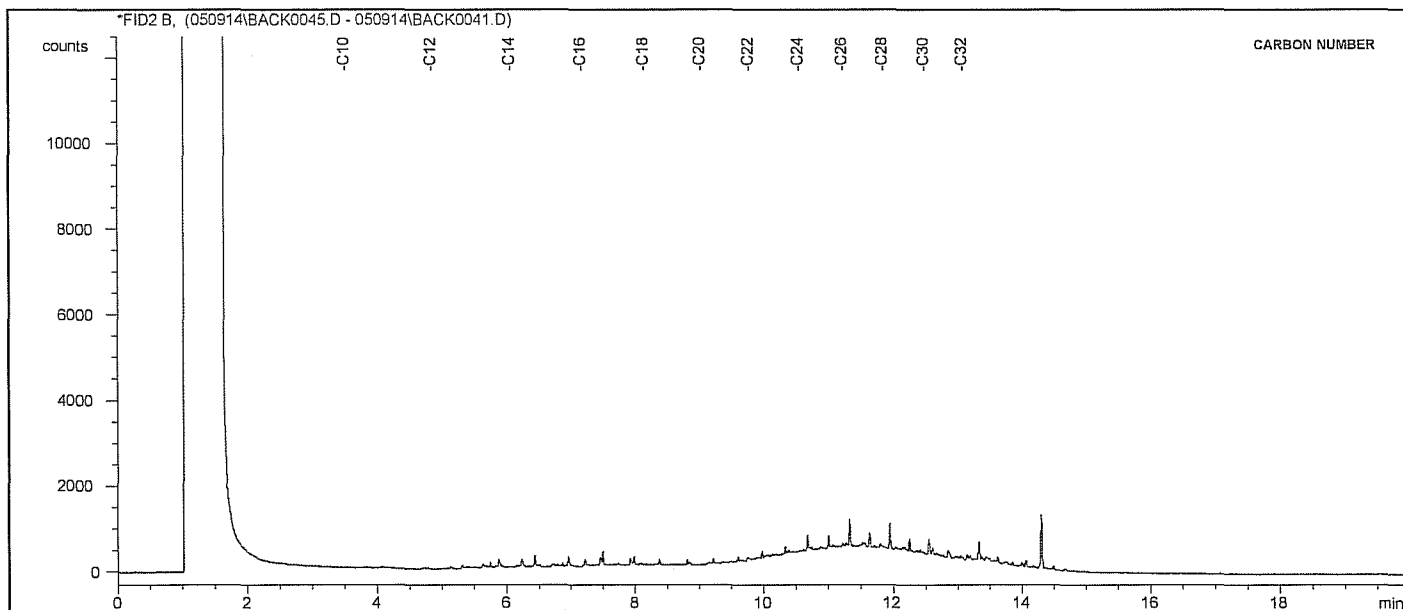
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 Attn: Dan Cornett
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 ACG

Project ID: BCM
 Name: Alexco-Brewery Creek
 Location: Brewery Creek Mine
 LSD:
 P.O.:

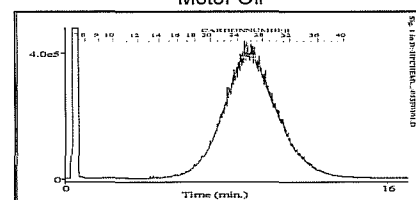
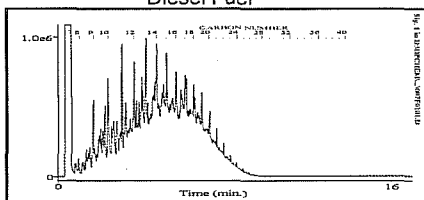
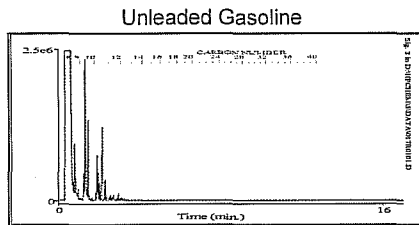
NWL Lot ID: 408163
 Control Number: E 01707
 Date Received: Sep 13, 2005
 Date Reported:

NWL Number: 408163-2
 Sample Date: Sep 7, 2005

Sample Description: ADF Fuel ADR-F-S-#2
 10cm



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline C4-C12
 Varsol C8-C12

Kerosene C7-C16
 Diesel C8-C22

Lubricating Oils C20-C40
 Crude Oils C3-C60+



Hydrocarbon Chromatogram

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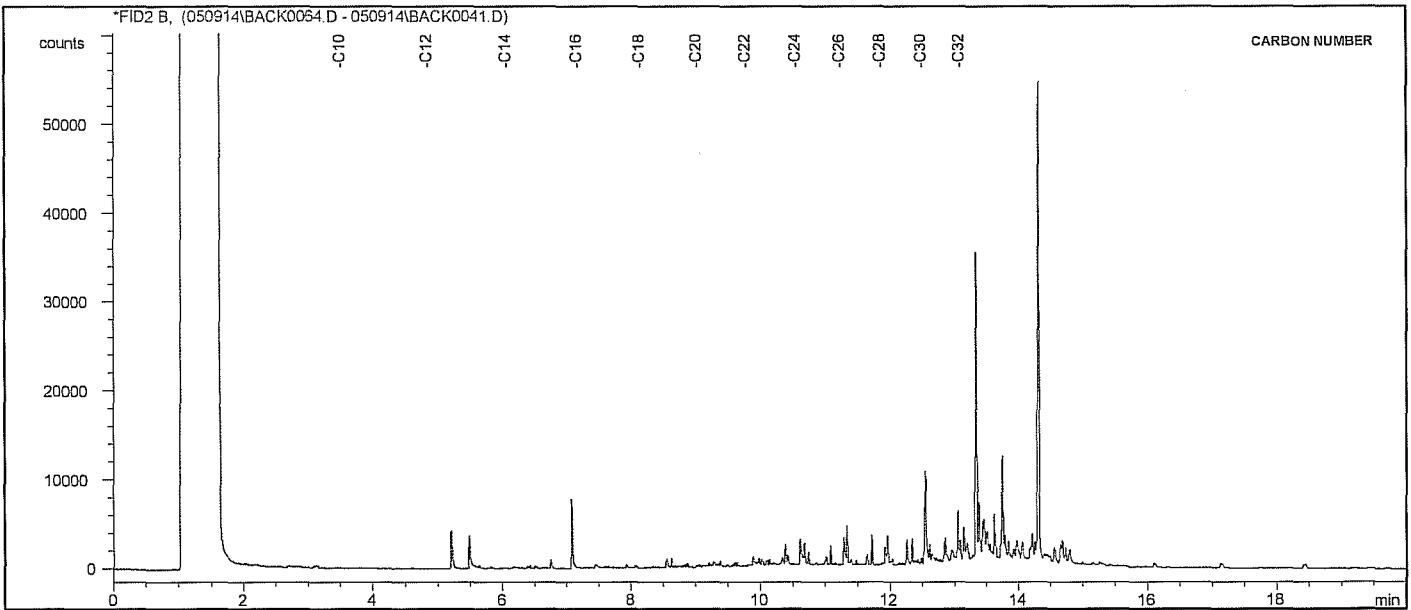
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 Report to: Access Mining Consultants Ltd.
 # 3 Calcite Business Centre
 151 Industrial Road
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 Y1A 2V3
 Attn: Dan Cornett
 Sampled by: D.Cornett
 ACG

Project ID: BCM
 Name: Alexco-Brewery Creek
 Location: Brewery Creek Mine
 LSD:
 P.O.:

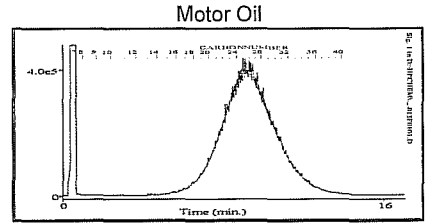
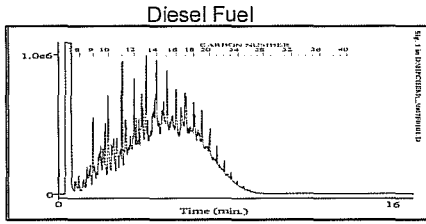
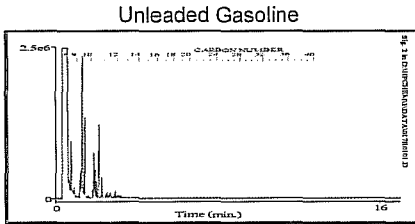
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 Control Number: E 01707
 Date Received: Sep 13, 2005
 Date Reported:

NWL Number: 408163-3
 Sample Date: Sep 7, 2005

Sample Description: Lab L-S-#3
 10cm



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges			
Gasoline	C4-C12	Kerosene	C7-C16
Varsol	C8-C12	Diesel	C8-C22
		Lubricating Oils	C20-C40
		Crude Oils	C3-C60+



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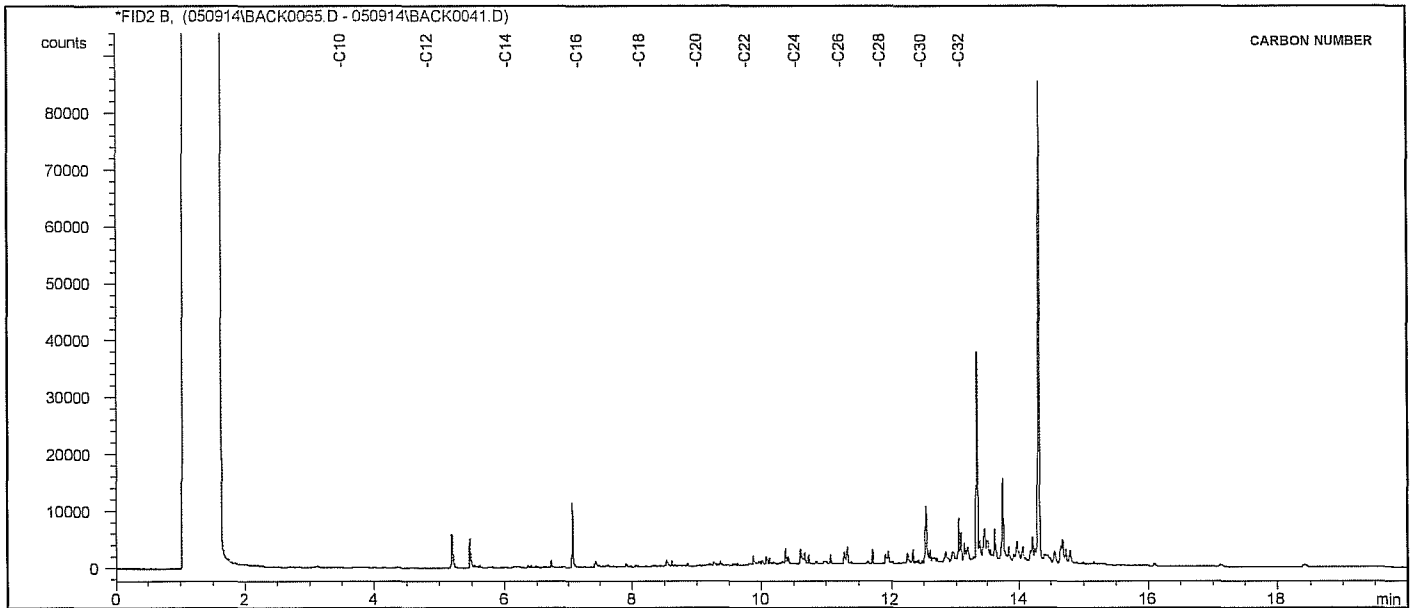
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3 Calcite Business Centre
151 Industrial Road
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Y1A 2V3
Attn: Dan Cornett
Sampled by: D.Cornett
ACG

Project ID: BCM
Name: Alexco-Brewery Creek
Location: Brewery Creek Mine
LSD:
P.O.:

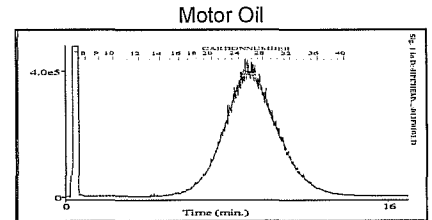
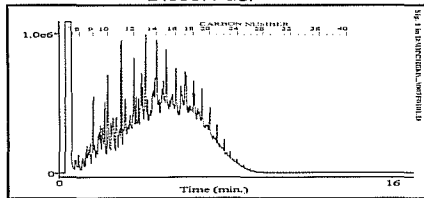
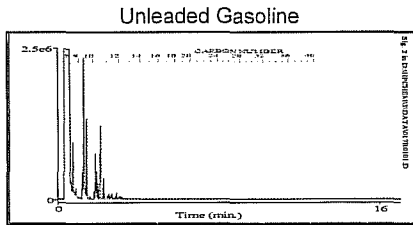
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Control Number: E 01707
Date Received: Sep 13, 2005
Date Reported:

NWL Number: 408163-4
Sample Date: Sep 7, 2005

Sample Description: ADF Plant ADR-S-#4
10cm



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline C4-C12
Varsol C8-C12

Kerosene C7-C16
Diesel C8-C22

Lubricating Oils C20-C40
Crude Oils C3-C60+



Hydrocarbon Chromatogram

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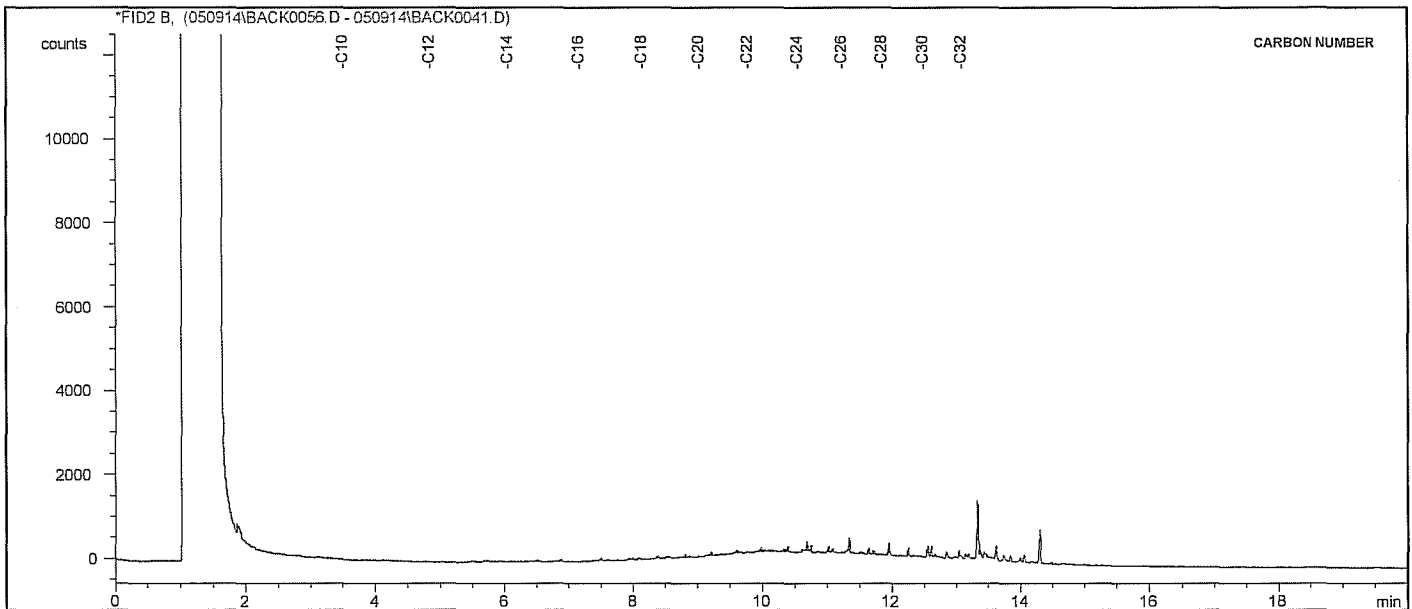
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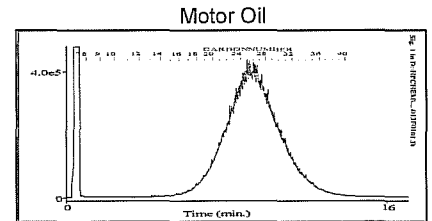
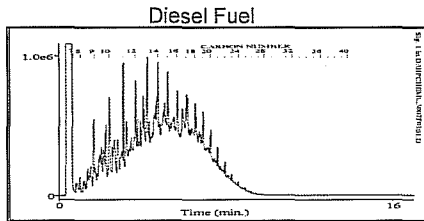
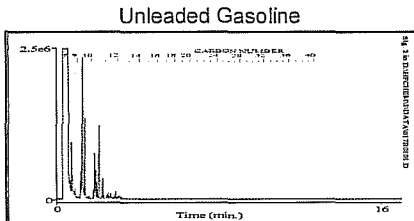
Project ID: BCM
Name: Alexco-Brewery Creek
Location: Brewery Creek Mine
LSD:
P.O.:

NWL Lot ID: 408163
Control Number: E 01707
Date Received: Sep 13, 2005
Date Reported:

NWL Number: 408163-5 **Sample Description:** Camp Area C-S-#5
Sample Date: Sep 7, 2005 10cm



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline C4-C12
 Varsol C8-C12

Kerosene C7-C16
 Diesel C8-C22

Lubricating Oils C20-C40
 Crude Oils C3-C60+



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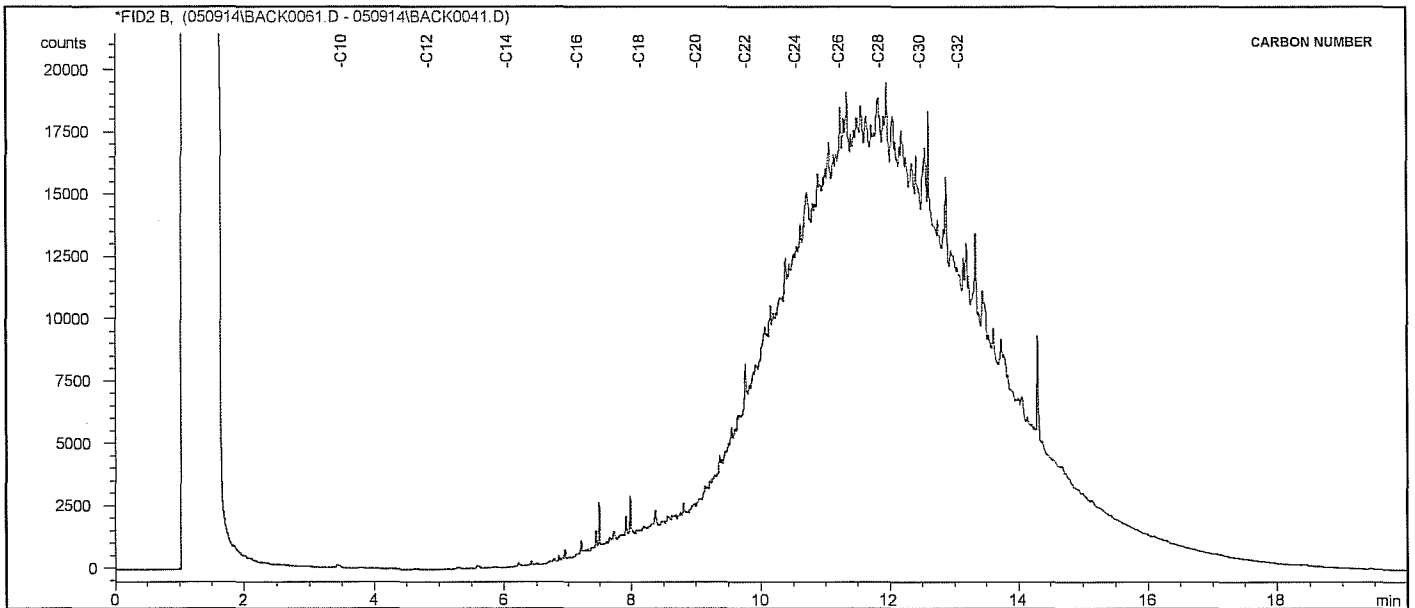
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Report to: Access Mining Consultants Ltd.
3 Calcite Business Centre
151 Industrial Road
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Y1A 2V3
Attn: Dan Cornett
Sampled by: D.Cornett
ACG

Project ID: BCM
Name: Alexco-Brewery Creek
Location: Brewery Creek Mine
LSD:
P.O.:

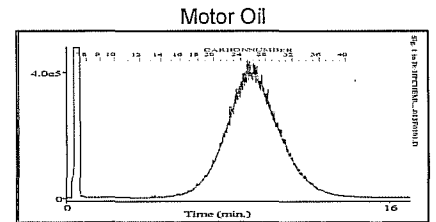
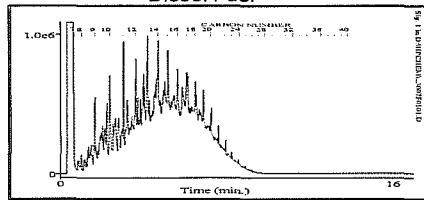
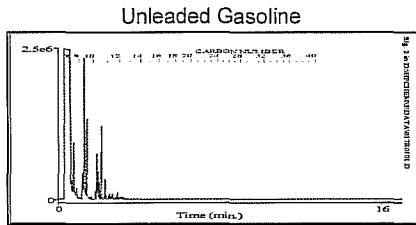
NWL Lot ID: 408163
Control Number: E 01707
Date Received: Sep 13, 2005
Date Reported:

NWL Number: 408163-6
Sample Date: Sep 7, 2005

Sample Description: Main Fuel MF-S-#6
10cm



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline C4-C12
Varsol C8-C12

Kerosene C7-C16
Diesel C8-C22

Lubricating Oils C20-C40
Crude Oils C3-C60+



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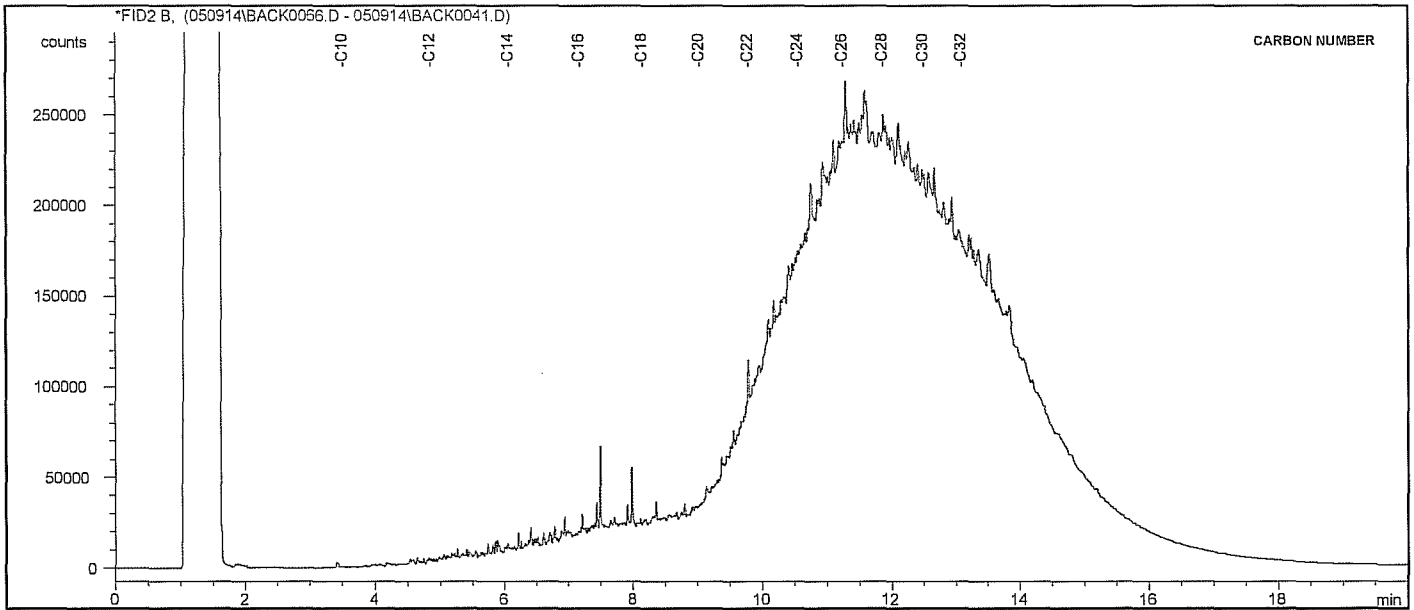
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 ACG

Project ID: BCM
 Name: Alexco-Brewery Creek
 Location: Brewery Creek Mine
 LSD:
 P.O.:

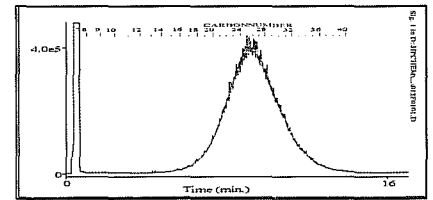
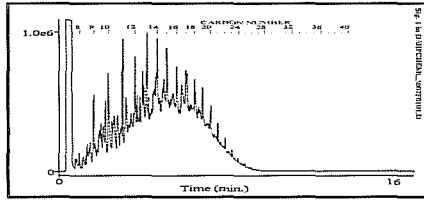
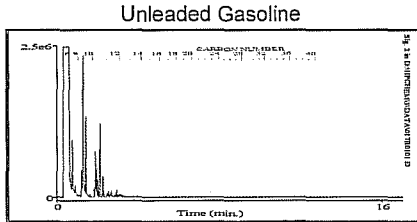
NWL Lot ID: 408163
 Control Number: E 01707
 Date Received: Sep 13, 2005
 Date Reported:

NWL Number: 408163-7
 Sample Date: Sep 7, 2005

Sample Description: Oil Storage OS-S-#7
 10cm



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline C4-C12
 Varsol C8-C12

Kerosene C7-C16
 Diesel C8-C22

Lubricating Oils C20-C40
 Crude Oils C3-C60+



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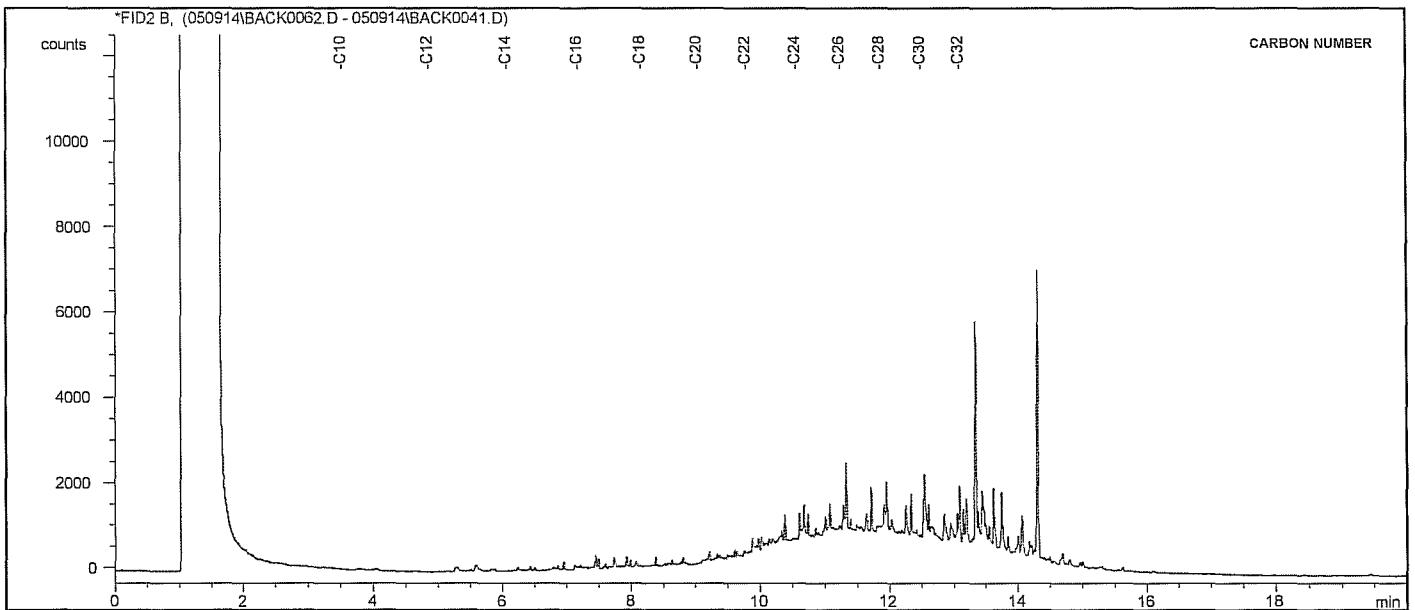
Bill to: Access Mining Consultants Ltd.
Report to: Access Mining Consultants Ltd.
 # 3 Calcite Business Centre
 151 Industrial Road
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 Attn: Dan Cornett
Sampled by: D.Cornett
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Project ID: BCM
Name: Alexco-Brewery Creek
Location: Brewery Creek Mine
LSD:
P.O.:

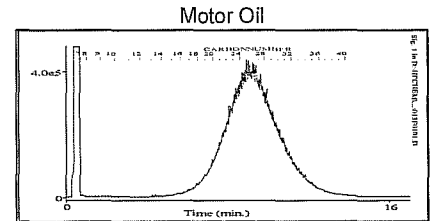
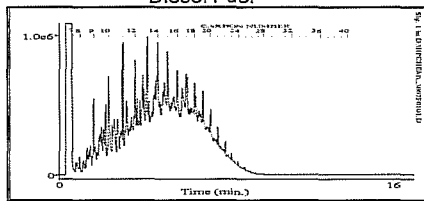
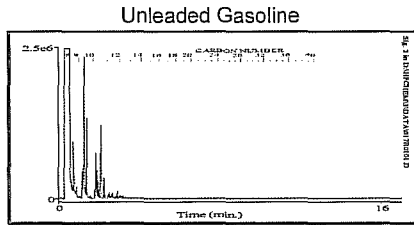
NWL Lot ID: 408163
Control Number: E 01707
Date Received: Sep 13, 2005
Date Reported:

NWL Number: 408163-8
Sample Date: Sep 7, 2005

Sample Description: Lime Silo LS-S-#8
 10cm



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline
 Varsol

C4-C12
 C8-C12

Kerosene
 Diesel

C7-C16
 C8-C22

Lubricating Oils
 Crude Oils

C20-C40
 C3-C60+



Hydrocarbon Chromatogram

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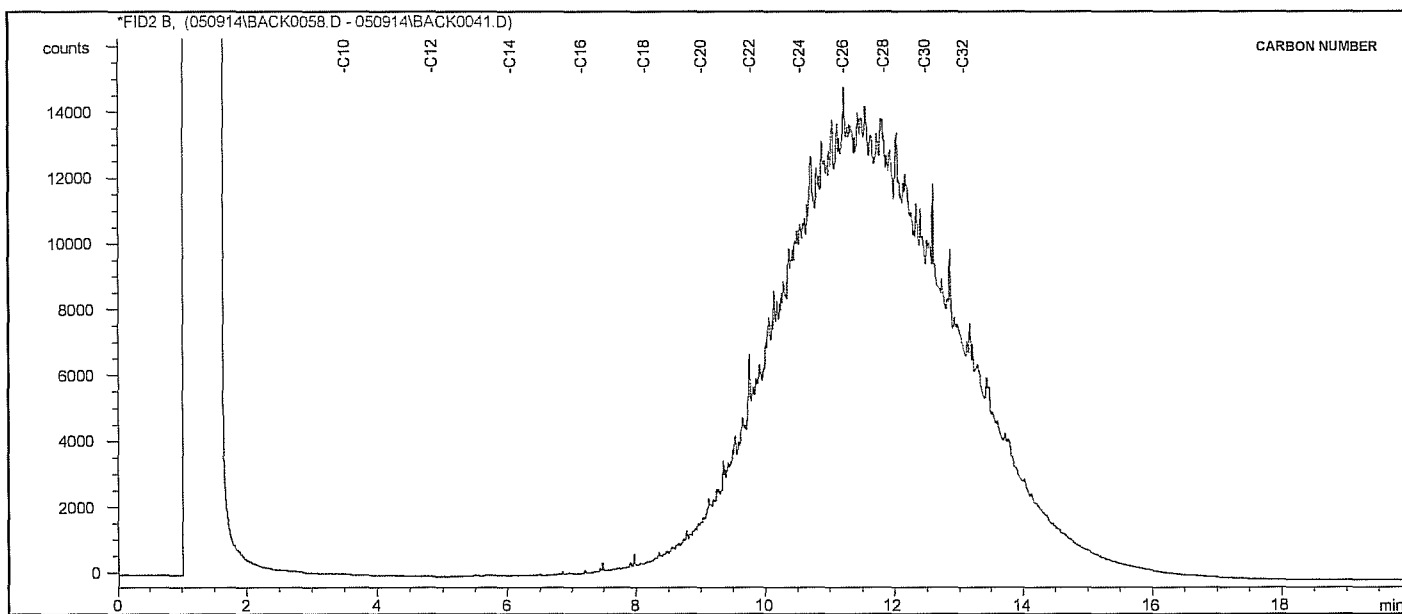
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 # 3 Calcite Business Centre
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 Y1A 2V3
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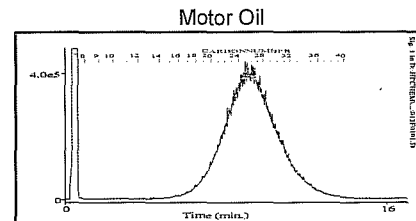
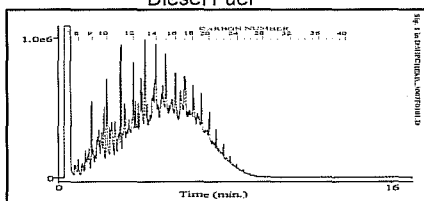
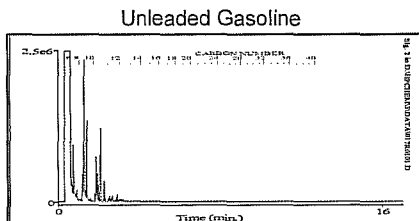
Project ID: BCM
 Name: Alexco-Brewery Creek
 Location: Brewery Creek Mine
 LSD:
 P.O.:

NWL Lot ID: 408163
 Control Number: E 01707
 Date Received: Sep 13, 2005
 Date Reported:

NWL Number: 408163-9 Sample Description: Bone Yard BY-S-#9
 Sample Date: Sep 7, 2005 10cm



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline C4-C12
 Varsol C8-C12

Kerosene C7-C16
 Diesel C8-C22

Lubricating Oils C20-C40
 Crude Oils C3-C60+



Hydrocarbon Chromatogram

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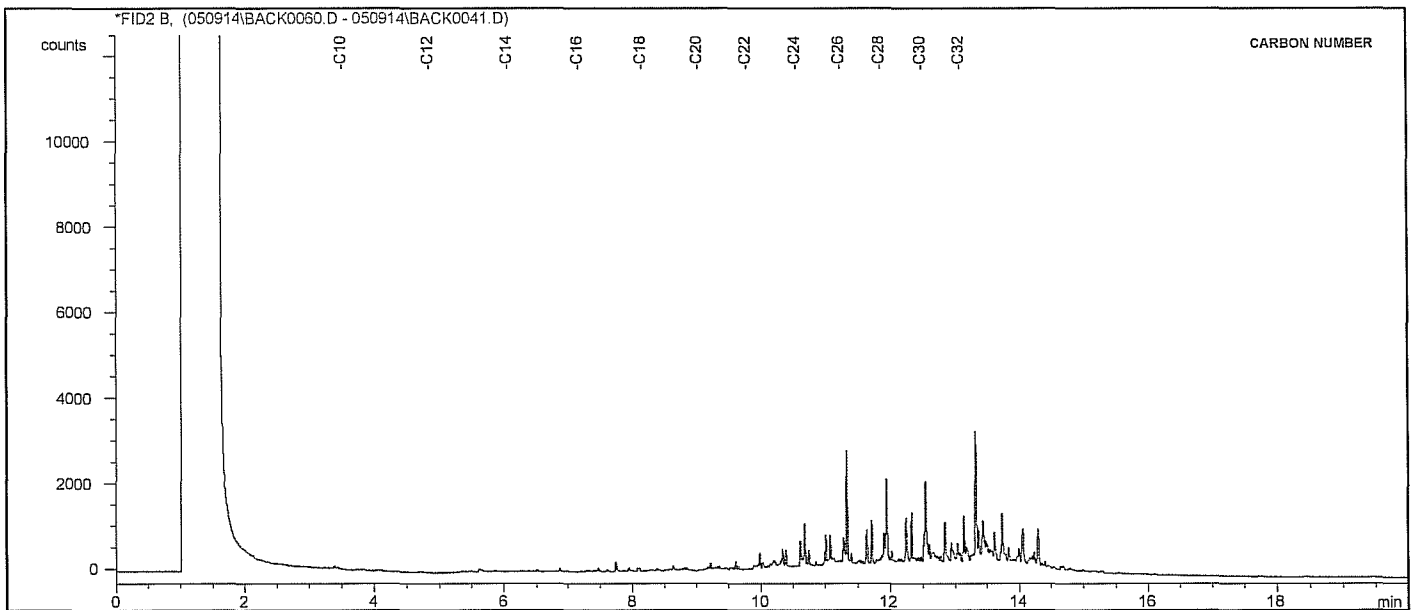
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Report to: Access Mining Consultants Ltd.
3 Calcite Business Centre
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Y1A 2V3
Attn: Dan Cornett
Sampled by: D.Cornett
ACG

Project ID: BCM
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Location: Brewery Creek Mine
LSD:
P.O.:

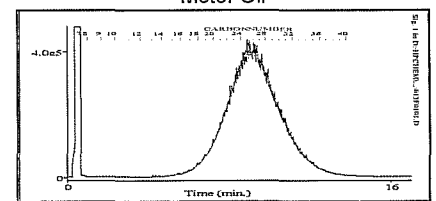
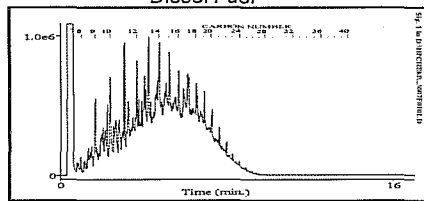
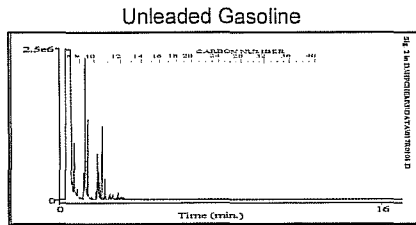
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Control Number: E 01707
Date Received: Sep 13, 2005
Date Reported:

NWL Number: 408163-10
Sample Date: Sep 7, 2005

Sample Description: Golden Laydown GL-S-#10
10cm



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline C4-C12
Varsol C8-C12

Kerosene C7-C16
Diesel C8-C22

Lubricating Oils C20-C40
Crude Oils C3-C60+



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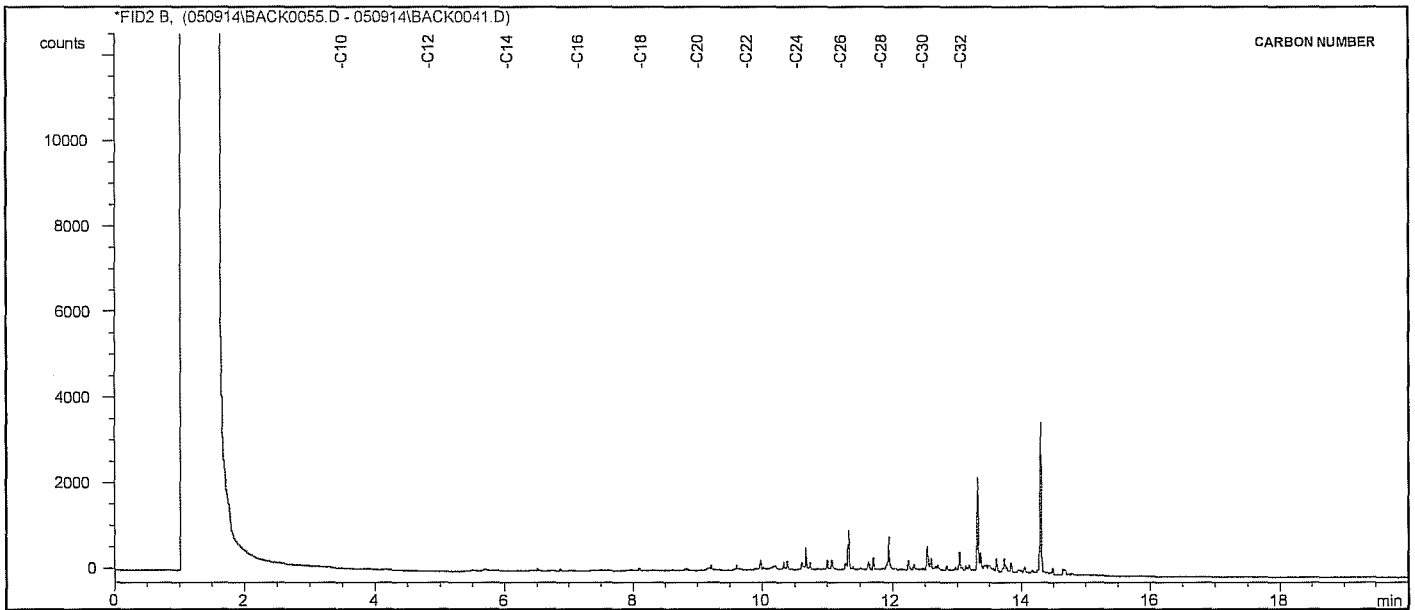
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 Sampled by: D.Cornett
 ACG

Project ID: BCM
 Name: Alexco-Brewery Creek
 Location: Brewery Creek Mine
 LSD:
 P.O.:

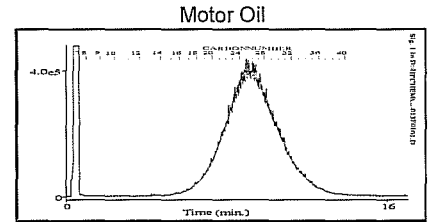
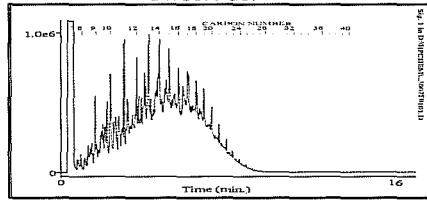
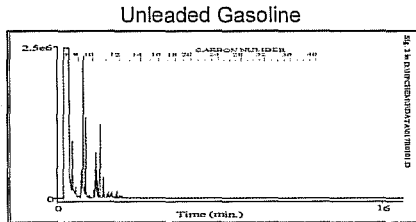
NWL Lot ID: 408163
 Control Number: E 01707
 Date Received: Sep 13, 2005
 Date Reported:

NWL Number: 408163-11
 Sample Date: Sep 7, 2005

Sample Description: Explosive Area EXP-S#11
 10cm



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline C4-C12
 Varsol C8-C12

Kerosene C7-C16
 Diesel C8-C22

Lubricating Oils C20-C40
 Crude Oils C3-C60+



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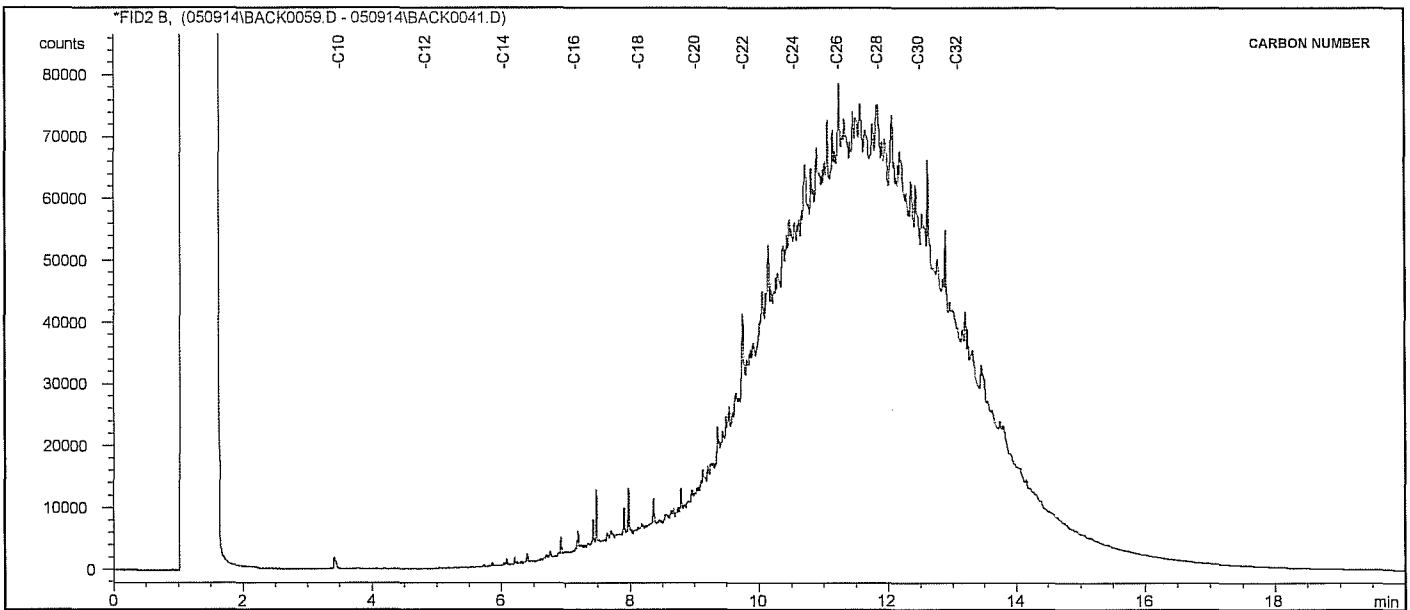
Bill to: Access Mining Consultants Ltd.
Report to: Access Mining Consultants Ltd.
3 Calcite Business Centre
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Y1A 2V3
Attn: Dan Cornett
Sampled by: D.Cornett
ACG

Project ID: BCM
Name: Alexco-Brewery Creek
Location: Brewery Creek Mine
LSD:
P.O.:

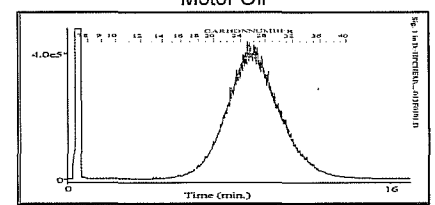
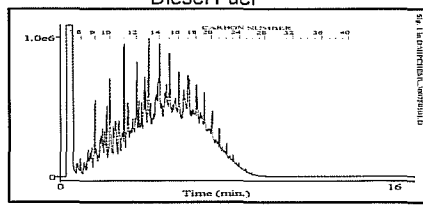
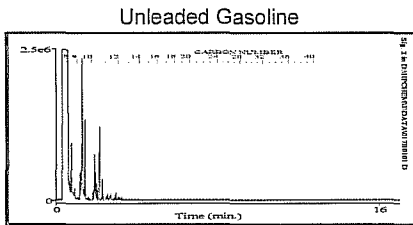
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Control Number: E 01707
Date Received: Sep 13, 2005
Date Reported:

NWL Number: 408163-12
Sample Date: Sep 7, 2005

Sample Description: Equipment Area EQ-S-#12
10cm



TYPICAL PRODUCT CHROMATOGRAMS



Product Carbon Number Ranges

Gasoline C4-C12
Varsol C8-C12

Kerosene C7-C16
Diesel C8-C22

Lubricating Oils C20-C40
Crude Oils C3-C60+

Appendix C

Historical Antimony and Arsenic Levels

MINEGRADED

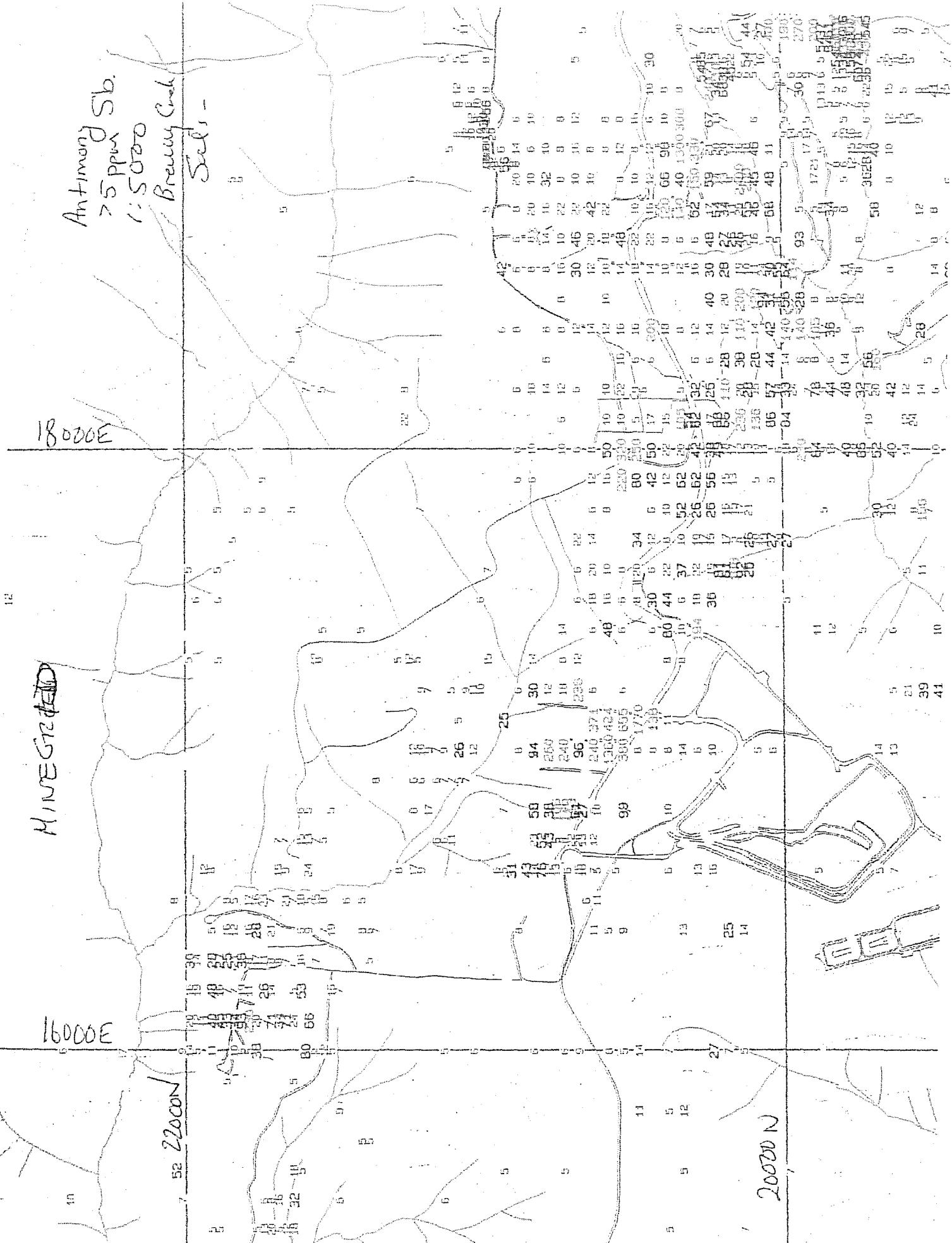
16000E

18000E

Antimony Sb.
> 5 ppm
1:5000
Brewery Creek
Sals-

52 2200N

2000N



Arsenic

ppm

> 50 ppm

1.5000

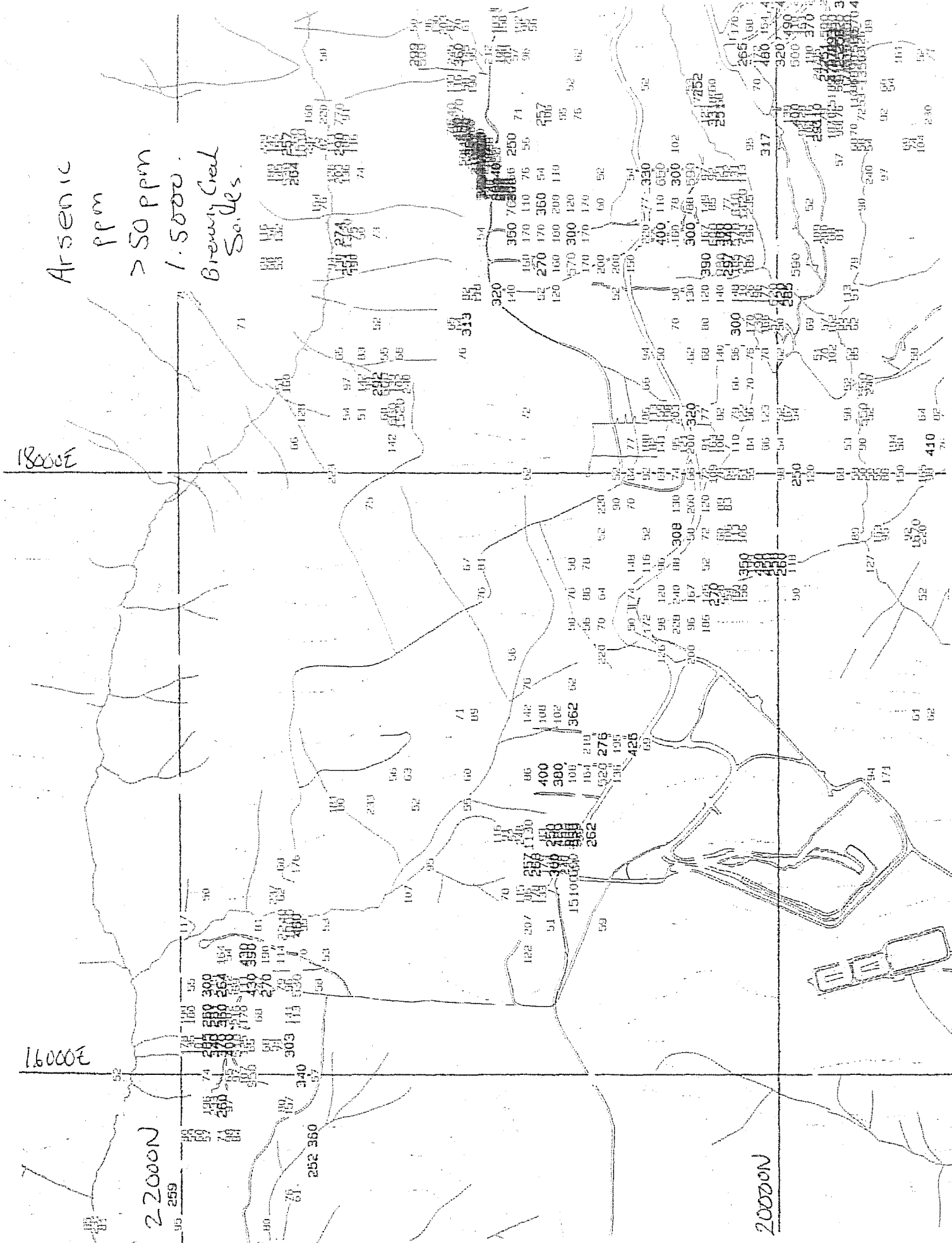
Brewery Cial
So. Res.

18000E

16000E

22000N

20000N



Appendix I
Revegetation and
Metals Uptake
Assessment

**Brewery Creek Mine
2005 Revegetation Assessment**

**Site Assessment Report Prepared for
Alexco Resources Corp.**



ALEXCO

Laberge
ENVIRONMENTAL SERVICES

February 2006

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1.0 Background

A revegetation program has been ongoing at the Brewery Creek Mine since 1996. Several seed mixes have been used. Earlier revegetation efforts were focused on the recontoured Canadian Zone waste rock dump and haul road, an area to the west of the Pacific Zone, and an area below the leach pad and reclaim ponds.

Two new seed mixes were acquired by Viceroy Minerals Corporation in 2003.

The 'wet site' seed mix included:

Common Name	Scientific Name	Percentage by Weight
Violet Wheatgrass	<i>Agropyron violaceum</i>	33%
Fowl Bluegrass	<i>Poa palustris</i>	33%
Alkaligrass	<i>Puccinellia distans</i>	13%
Tufted Hairgrass	<i>Deschampsia caespitosa</i>	13%
White Clover	<i>Trifolium repens</i>	8%

The 'leach pad' mix included:

Common Name	Scientific Name	Percentage by Weight
Slender Wheatgrass	<i>Agropyron trachycaulus</i>	50%
Kentucky Bluegrass	<i>Poa pratensis</i>	20%
Red Fescue	<i>Festuca rubra</i>	20%
Alfalfa	<i>Medicago sativa</i>	10%

These two seed mixes were used to revegetate a number of areas of the mine site between 2003 and 2005 (see Sections 2.0 and 3.0).

2.0 Permanent Monitoring Plots Installation & Survey

As detailed in Section 7 of the Heap Leach Pad Cover and Facilities Monitoring Program, and Section 6 of the Blue Zone Monitoring and Assessment Program, annual terrestrial monitoring is to be conducted on the vegetation on the Leach Pad and in the Blue WRSA. Alexco also set up a control site west of Pacific Zone for comparison purposes. The terrestrial monitoring was conducted August 15th to 18th 2005.

Three 5m X 5m permanent monitoring plots were established at each of the following locations:

- Blue WRSA
- Leach Pad
- Control (West of Pacific Zone)

The Blue WRSA and the Leach Pad were both seeded in the fall of 2003 with the 'leach pad' seed mix. The control plot was selected on an area to the west of the Pacific Zone that was seeded in the fall of 2001 with the 'Brewery Creek' seed mix (see Section 2.2).

2.1 Survey Methods

At each plot the following information was recorded:

- UTM coordinates
- Elevation, slope and aspect
- Vegetative cover using the following 5 grades:
 - 0-1%
 - 1-12.5%
 - 12.5-25%
 - 25-50%
 - 50-100%
- Seeded species composition
- Natural colonization by other plant species
- Root depth penetration of seeded species
- In-situ soil pH
- In-situ soil moisture (% relative saturation at bottom of test pit)
- Evidence of erosion

Tissue samples from each seeded plant species and soil samples were collected from each plot and analyzed for metals. Site photographs were also taken.

2.2 Survey Results

Blue WRSA - Seeded in the Fall of 2003

Seed mix included:	Slender Wheatgrass	<i>(Agropyron trachycaulus)</i>	50%
	Kentucky Bluegrass	<i>(Poa pratensis)</i>	20%
	Red Fescue	<i>(Festuca rubra)</i>	20%
	Alfalfa	<i>(Medicago sativa)</i>	10%

Table 1 Blue WRSA Plots

	Plot 1	Plot 2	Plot 3
UTM Coordinates	07W 0633674E 7105241N	07W 0633716E 7105262N	07W 0633755E 7105257N
Elevation (m)	815	815	807
Estimated Slope (°)	30	35	35
Aspect	South	South	South
In-situ Soil pH	6.4	5.8	6.1
In-situ Soil Moisture (% relative saturation)	12	9	5
Vegetative Cover (%)	25-50	50-100	25-50
Species Composition (seeded species in order of dominance)	Slender Wheatgrass Red Fescue Kentucky Bluegrass Alfalfa	Slender Wheatgrass Red Fescue Kentucky Bluegrass Alfalfa	Slender Wheatgrass Red Fescue Kentucky Bluegrass Alfalfa
Root Depth Penetration (mm)	S. Wheatgrass 70 R. Fescue 45 K. Bluegrass 50 Alfalfa 90	S. Wheatgrass 60 R. Fescue 75 K. Bluegrass 65 Alfalfa 130	S. Wheatgrass 80 R. Fescue 80 K. Bluegrass 70 Alfalfa 170
Other Species	Tufted Hairgrass	Arctic Lupine	Arctic Lupine Tufted Hairgrass Foxtail Barley
Evidence of Erosion	Several gullies with maximum depth of 80 mm	1 gully with maximum depth of 100 mm	1 gully with maximum depth of 120 mm (200 mm wide)
Additional Comments	Plot located over lysimeter (as requested) Bare patch down middle of plot All seeded grass species in seed, alfalfa in flower Soil and vegetation samples collected Photographs taken	Soil very compacted All seeded grass species in seed, alfalfa in flower Soil and vegetation samples collected Photographs taken	Vegetation sparse at upper end of plot All seeded grass species in seed, alfalfa in flower Soil and vegetation samples collected Photographs taken

Leach Pad - Seeded in the Fall of 2003

Seed mix included:	Slender Wheatgrass (<i>Agropyron trachycaulus</i>)	50%
	Kentucky Bluegrass (<i>Poa pratensis</i>)	20%
	Red Fescue (<i>Festuca rubra</i>)	20%
	Alfalfa (<i>Medicago sativa</i>)	10%

Table 2 Leach Pad Plots

	Plot 1	Plot 2	Plot 3
UTM Coordinates	07W 0632807E 7104611N	07W 0632716E 7104655N	07W 0632856E 7104587N
Elevation (m)	859	849	853
Estimated Slope (°)	0	<10	20
Aspect	Neutral	North	Southeast
In-situ Soil pH	6.0	6.4	6.3
In-situ Soil Moisture (% relative saturation)	18	10	18
Vegetative Cover (%)	50-100	50-100	25-50
Species Composition (seeded species in order of dominance)	Slender Wheatgrass Red Fescue Alfalfa Kentucky Bluegrass	Red Fescue Slender Wheatgrass Kentucky Bluegrass Alfalfa	Slender Wheatgrass Red Fescue Kentucky Bluegrass Alfalfa
Root Depth Penetration (mm)	S. Wheatgrass 70 R. Fescue 110 K. Bluegrass 90 Alfalfa 160	S. Wheatgrass 65 R. Fescue 100 K. Bluegrass 75 Alfalfa 120	S. Wheatgrass 60 R. Fescue 100 K. Bluegrass 70 Alfalfa 170
Other Species	Tufted Hairgrass Annual Hawk's beard Raspberry	None	Annual Hawk's beard
Evidence of Erosion	None	None	2 gullies with maximum depth of 50 mm
Additional Comments	All seeded grass species in seed, alfalfa in flower Soil and vegetation samples collected Photographs taken	All seeded grass species in seed, alfalfa in flower Soil and vegetation samples collected Photographs taken	All seeded grass species in seed, alfalfa in flower Soil and vegetation samples collected Photographs taken

Control (West of Pacific Zone) - Seeded in the Fall of 2001

Seed mix included:	Violet Wheatgrass	(<i>Agropyron violaceum</i>)	35%
	Slender Wheatgrass	(<i>Agropyron trachycaulus</i>)	13%
	Fowl Bluegrass	(<i>Poa palustris</i>)	16%
	Alpine Bluegrass	(<i>Poa alpina</i>)	13%
	Sheep Fescue	(<i>Festuca ovina</i>)	13%
	Rocky Mountain Fescue	(<i>Festuca saximontana</i>)	10%

Table 3 Control Plots

	Plot 1	Plot 2	Plot 3
UTM Coordinates	07W 0632890E 7105434N	07W 0632899E 7105457N	07W 0632920E 7105520N
Elevation (m)	837	838	835
Estimated Slope (°)	0	0	0
Aspect	Neutral	Neutral	Neutral
In-situ Soil pH	6.6	6.5	6.2
In-situ Soil Moisture (% relative saturation)	40	38	46
Vegetative Cover (%)	50-100	50-100	25-50
Species Composition (seeded species in order of dominance)	Fowl Bluegrass Violet/Slender Wheatgrass Rocky Mountain/ Sheep Fescue Alpine Bluegrass	Fowl Bluegrass Rocky Mountain/ Sheep Fescue Violet/Slender Wheatgrass Alpine Bluegrass	Fowl Bluegrass Rocky Mountain/ Sheep Fescue Violet/Slender Wheatgrass Alpine Bluegrass
Root Depth Penetration (mm)	V/S Wheatgrass 50 RM/S Fescue 60 F Bluegrass 85	V/S Wheatgrass 60 RM/S Fescue 85 F Bluegrass 60	V/S Wheatgrass 70 RM/S Fescue 80 F Bluegrass 75
Other Species	Blue-joint Grass Fireweed Arctic Milk Vetch	Fireweed Arctic Milk Vetch Arctic Dock Arctic Lupine Common Timothy	Fireweed
Evidence of Erosion	None	None	None
Additional Comments	All seeded grass species in seed Lots of grass litter from previous years' growth Soil and vegetation samples collected Photographs taken	All seeded grass species in seed Lots of grass litter from previous years' growth Soil and vegetation samples collected Photographs taken	All seeded grass species in seed Lots of grass litter from previous years' growth Soil and vegetation samples collected Photographs taken

2.3 Metal Uptake Analysis

In accordance with the two previously mentioned monitoring programs, metal uptake assessments are to be conducted during Year 1 (2005) and Year 5 and 10.

This analysis attempts to determine if there is a significant uptake of metals by the seeded plant species by examining the metal concentrations found in plant tissues and the associated soils. A comparison of metal levels was made between the two mine site plots and the control plot. The mine site plots (Blue WRSA plot and the Leach Pad plot) were both seeded in the fall of 2003 with the 'leach pad' seed mix, while the control plot, to the west of the Pacific Zone, was seeded in the fall of 2001 with an earlier acquired seed mix.

Blue Zone Plot	Leach Pad Plot	Control Plot
Slender Wheatgrass	Slender Wheatgrass	Slender Wheatgrass
Kentucky Bluegrass	Kentucky Bluegrass	Violet Wheatgrass
Red Fescue	Red Fescue	Fowl Bluegrass
Alfalfa	Alfalfa	Alpine Bluegrass
		Sheep Fescue
		Rocky Mountain Fescue

Slender Wheatgrass is the only seeded species common to all three plots. 'Wheatgrass', 'Bluegrass' and 'Fescue' are the seeded grasses used in this comparison. Alfalfa was not present in the control plot but specimens were analyzed from Blue Zone and the Leach Pad.

An examination of the plant tissue metals shows all three test grasses to have lower levels of some metals (arsenic, selenium, sodium, titanium and vanadium) at the control plots than those concentrations found at the two mine site plots. Conversely, several metals (aluminum, copper, lead, molybdenum, phosphorus, silver and zinc) were higher in plant tissues in the control plots than at the other two mine site plots.

This, however, cannot be interpreted as evidence of a significant uptake of these metals by the test species, because an examination of the soil metal concentrations shows no obvious difference between the levels of any metals at the mine site plots and the control plot.

Of the three grass types common to each plot, bluegrass tended to have higher concentrations of the majority of the metals tested.

Table 4 summarizes some of the above data. The soil data has been included per plot along with the plant tissue data.

Table 4 Metals in Soils and Plant Tissues in Each Plot

Matrix	Soils	Wheatgrass	Fescue	Bluegrass	Alfalfa	Soils	Wheatgrass	Fescue	Bluegrass	Alfalfa	Soils	Wheatgrass	Fescue	Bluegrass	Alfalfa
CONTROL	C-1	C-1	C-1	C-1		C-2	C-2	C-2	C-2		C-3	C-3	C-3	C-3	
Aluminum	13500	262	155	1860		13400	301	124	1640		12900	378	127	1720	
Arsenic	124	<0.3	<0.4	<0.3		90.3	0.4	<0.4	<0.3		71.5	<0.3	<0.3	<0.3	
Cadmium	1.8	0.1	0.68	0.5		1.6	0.2	0.4	0.3		1.5	0.3	0.3	0.3	
Copper	25.5	8.12	6.76	43.7		21.5	9.04	6.71	38.9		30.6	10.6	5.9	40.5	
Lead	19	<0.5	<0.5	2.1		15.6	<0.5	<0.5	1.9		14.5	0.52	<0.5	1.8	
Mercury	0.594	0.004	0.005	0.006		0.494	0.003	0.004	0.0065		1.18	0.007	0.0075	0.008	
Selenium	<0.50	<0.5	<0.5	<0.5		<0.50	<0.5	<0.5	<0.5		<0.50	<0.5	<0.5	<0.5	
Sodium	47	<5	9	<5		50.4	<5	5	<5		60.6	<5	<5	<5	
Titanium	124	0.4	1.2	1		117	0.5	0.68	0.93		209	0.4	0.63	1.1	
Vanadium	77.9	<0.2	<0.2	<0.2		61.2	<0.2	<0.2	<0.2		90.9	<0.2	<0.2	<0.2	
Zinc	141	41.3	25	122		107	40.3	30.1	97.6		122	39.6	18	84.9	
LEACH PAD	LP-1	LP-1	LP-1	LP-1	LP-1	LP-2	LP-2	LP-2	LP-2	LP-2	LP-3	LP-3	LP-3	LP-3	LP-3
Aluminum	12400	392	711	1080	313	11400	408	251	433	428	14600	524	477	530	390
Arsenic	78.6	0.62	2.4	2	2.4	797	1.1	1.4	0.8	2.4	40.6	0.58	0.64	0.8	1.6
Cadmium	1.6	0.5	0.61	0.62	2.3	4.2	0.4	0.4	0.4	3.8	0.9	0.1	0.3	0.2	1.2
Copper	38.6	9.39	8.51	14.3	7.88	39.4	10.5	7.39	12.5	7.92	30	12.6	10.1	13.7	7.4
Lead	19.2	<0.5	0.5	0.59	<0.5	29.6	0.71	<0.5	0.63	<0.5	17.2	0.65	<0.5	0.54	<0.5
Mercury	0.56	0.007	0.008	0.011	0.005	1.78	0.005	0.005	0.014	0.008	0.257	0.003	0.007	0.011	0.0055
Selenium	<0.50	1.2	2.4	2.4	4	<0.50	0.72	1.1	1.2	2.1	<0.50	1.1	0.9	0.96	1.9
Sodium	74.9	20	110	160	120	295	10	20	30	180	70	20	54	40	240
Titanium	113	3.9	15.3	21.8	7.51	49.9	2.2	3.4	5.64	8.68	151	2.7	8.16	7.71	9.3
Vanadium	70.7	0.4	1.8	3.3	0.69	64.7	0.4	0.4	1	1.2	58.1	0.3	0.82	0.87	0.86
Zinc	142	47.6	43.6	63.2	67	164	40.5	33.4	53.6	106	108	40.6	39.8	47.9	39.3
BLUE ZONE	BZ-1	BZ-1	BZ-1	BZ-1	BZ-1	BZ-2	BZ-2	BZ-2	BZ-2	BZ-2	BZ-3	BZ-3	BZ-3	BZ-3	BZ-3
Aluminum	9190	585	597	978	260	9040	602	474	890	345	11400	1130	518	664	437
Arsenic	328	4.3	4.5	8.13	3.9	547	2.3	2.9	4.8	2.4	255	3.4	1.4	2.7	1.6
Cadmium	1.7	0.1	0.09	0.1	1.4	3.1	0.2	0.4	0.2	2.3	1.5	0.1	0.09	0.1	1.3
Copper	29	9.12	9.29	11	10.4	44	11	10.5	14.3	10.2	35.7	10.9	9.59	12	8.45
Lead	16.2	0.66	<0.5	0.83	<0.5	23.2	0.59	<0.5	0.7	<0.5	17.1	0.76	<0.5	0.6	0.55
Mercury	1.12	0.015	0.011	0.026	0.01	1.84	0.016	0.018	0.03	0.007	1.19	0.018	0.01	0.018	0.01
Selenium	<0.50	<0.5	0.52	0.54	2.5	<0.50	0.64	0.68	0.7	0.98	<0.50	<0.5	<0.5	<0.5	0.55
Sodium	42.2	30	40	63	67	36.4	40	50	66	71	53.8	63	40	58	110
Titanium	93.4	6.04	8.31	14	3.8	36.7	6.96	9.08	13.4	7.32	97.7	15.2	7.65	11.7	8.87
Vanadium	62.2	1.2	1.5	2.8	0.68	63.4	1	1.2	2.3	0.82	72.8	3.2	1	1.7	1.1
Zinc	88.4	34.1	30.3	41.6	53.9	170	33.6	32.8	45	76.5	100	29.6	24.4	29.8	59

Generalized comments are summarized below:

- Aluminum: highest concentrations were documented in bluegrass tissues in Control
- Arsenic: highest concentrations occurred in Blue Zone and were usually highest in bluegrass tissues.
- Cadmium: highest concentrations were documented at the Leach pad sites
- Copper: concentrations were fairly consistent throughout except for very high concentrations in the bluegrass tissues at the Control sites
- Lead: concentrations were highest in bluegrass tissues in the Control sites
- Mercury: there was little range in mercury concentrations
- Selenium: the highest concentrations were recorded in grass tissues from the Leach pad sites although selenium was not present in any of the soil samples. Selenium was also not detected in the vegetation at the Control sites.
- Sodium: concentrations were very low in the Control sites but considerably higher in samples from the Leach pad and Blue Zone sites.
- Titanium: concentrations were very low in the grass tissues from the Control sites but considerably higher in samples from the Leach pad and Blue Zone sites. However, titanium concentrations in the soil were higher in the Control plots than in the soil samples from the two mine site plots.
- Vanadium: vanadium was not detected in the plant tissues from the control plots, however the concentrations in the soil here was similar to the concentrations in the mine plot soil samples.
- Zinc: the highest concentrations were found in bluegrass tissues from the Control plots.

The Laboratory report of all metals data is shown in Appendix A.

3.0 Survey of Other Revegetated Areas

3.1 Survey Methods

A brief visual survey of other recently seeded areas of the mine site was carried out. These areas were located with the assistance of the site manager. The survey included an estimation of the overall vegetative cover, a non-quantitative seeded species composition and a record of other plant species observed colonizing the area.

3.2 Survey Results

Blue WRSA

Approximately 4.9 ha were drill-seeded in the fall of 2003 using the wet area seed mix.

Overall vegetative cover is about 80%, although a few areas have a thinner cover and a few spots were missed by the seeder.

The seeded cover is mostly Violet Wheatgrass and Tufted Hairgrass, with some Fowl Bluegrass and Alkaligrass. White Clover is sparse.

Colonizing species observed included Raspberry (*Rubus idaeus*), Lamb's-quarters (*Chenopodium album*), Common Timothy (*Phleum pratense*), Foxtail Barley (*Hordeum jubatum*) and Red Fescue (*Festuca rubra*).

Moosehead

Approximately 3.0 ha were broadcast-seeded by ATV in the fall of 2003 using the wet area seed mix.

The vegetative cover is variable, ranging from near-bare patches to 80% cover.

The seeded cover is mostly Violet Wheatgrass and Fowl Bluegrass, with some Tufted Hairgrass. Alkaligrass and White Clover are sparse.

Colonizing species observed included Black Spruce (*Picea mariana*), Alaska Birch (*Betula neoalaskana*), Willow (*Salix sp*), Raspberry (*Rubus idaeus*), Prickly Rose (*Rosa acicularis*), Fireweed (*Epilobium angustifolium*), Arctic Lupine (*Lupinus arcticus*), Rock Harlequin (*Corydalis semipervirens*), Annual Hawk's-beard (*Crepis tectorum*), Blue-joint Reedgrass (*Calamagrostis canadensis*), Foxtail Barley (*Hordeum jubatum*) and Alpine Bluegrass (*Poa alpina*).

Kokanee Above Pit

Approximately 11.0 ha were broadcast-seeded by ATV in the fall of 2003 using the wet area seed mix.

The vegetative cover is variable, ranging from 60 to 80%.

The seeded cover is dominated by a heavy growth of White Clover, along with Violet Wheatgrass, Fowl Bluegrass and Tufted Hairgrass. There is little evidence of Alkaligrass.

Colonizing species observed included Fireweed (*Epilobium angustifolium*), Annual Hawk's-beard (*Crepis tectorum*), Wormwood (*Artemisia* sp.) and Blue-joint Reedgrass (*Calamagrostis canadensis*).

Kokanee Inpit Backfill

Approximately 5.0 ha were broadcast-seeded by ATV in the fall of 2003 using the wet area seed mix.

The vegetative cover is variable, ranging from 50 to 80%.

The seeded cover is dominated by a heavy, although patchy, growth of White Clover. There is a fairly heavy growth of Violet Wheatgrass along with Fowl Bluegrass and Tufted Hairgrass. Alkaligrass is sparse.

Colonizing species observed included Annual Hawk's-beard (*Crepis tectorum*) and Shepherd's-purse (*Capsella bursa-pastoris*).

North Golden Inpit Backfill

Approximately 11.2 ha were broadcast-seeded by ATV in the fall 2003 using the wet area seed mix.

The area has good cover, ranging from 70-90%, with the exception of a few small patches on the slope that were missed by the seeder.

The seeded cover is dominated by Violet Wheatgrass and White Clover, with lesser amounts of Fowl Bluegrass and Tufted Hairgrass. A few patches have lots of Violet Wheatgrass, Fowl Bluegrass and Tufted Hairgrass but no White Clover. Alkaligrass was not observed at this site.

Colonizing species observed include Annual Hawk's-beard (*Crepis tectorum*), Fireweed (*Epilobium angustifolium*), Alpine Bluegrass (*Poa alpina*) and Ticklegrass (*Agrostis scabra*).

Lucky

Approximately 4.3 ha were broadcast-seeded by ATV in the fall 2003 using the wet area seed mix.

The area has good cover, up to 100% in most areas.

The seeded cover is dominated by Tufted Hairgrass and White Clover, with lesser amounts of Fowl Bluegrass and Violet Wheatgrass, and a small amount of Alkaligrass.

Colonizing species observed include Alaska Birch (*Betula neoalaskana*), Willow (*Salix* sp.), Raspberry (*Rubus idaeus*), Annual Hawk's-beard (*Crepis tectorum*), Fireweed (*Epilobium angustifolium*), Arctic Dock (*Rumex arcticus*), Common Yarrow (*Achillea millefolium*), Siberian Yarrow (*Achillea sibirica*), Fleabane (*Erigeron* sp.), Common Timothy (*Phleum pratense*), Blue-joint Reed Grass (*Calamagrostis Canadensis*) and Ticklegrass (*Agrostis scabra*) and Horsetail (*Equisetum* sp.).

Upper Fosters

Approximately 8.0 ha were broadcast-seeded by ATV in the fall 2003 using the wet area seed mix.

The area has good cover on the lower flats, ranging from 70-90%, with a much thinner growth (40-60%) on the upper slopes.

The seeded cover is dominated by Violet Wheatgrass and Tufted Hairgrass, with small amounts of Fowl Bluegrass and White Clover. Alkaligrass was not observed at this site.

Colonizing species observed include Alaska Birch (*Betula neoalaskana*), Willow (*Salix* sp.), Raspberry (*Rubus idaeus*), Annual Hawk's-beard (*Crepis tectorum*), Fleabane (*Erigeron* sp.), Common Timothy (*Phleum pratense*), Blue-joint Reed Grass (*Calamagrostis Canadensis*), Ticklegrass (*Agrostis scabra*), Bearded Wheatgrass (*Agropyron subsecundum*), Foxtail Barley (*Hordeum jubatum*) and Wood Rush (*Luzula parviflora*).

Canadian Stockpile

Approximately 1.0 ha was drill-seeded in the fall 2003 using the wet area seed mix.

The area has very good cover, nearing 100% overall.

The seeded cover is dominated by Violet Wheatgrass and White Clover, with lesser amounts of Fowl Bluegrass and Tufted Hairgrass. Alkaligrass occurs only at the base of the slope.

Colonizing species observed include Annual Hawk's-beard (*Crepis tectorum*), Common Yarrow, (*Achillea millefolium*), Blue-joint Reed Grass (*Calamagrostis Canadensis*) Foxtail Barley (*Hordeum jubatum*) and Brome Grass (*Bromus pumpellianus*).

Canadian Waste Rock Storage Area

Approximately 9.2 ha were seeded in the fall of 1997 with a bulk mixer truck using the 'Brewery Creek' seed mix. This mix included:

Fowl Bluegrass	(<i>Poa palustris</i>)	17%
Kentucky Bluegrass	(<i>Poa pratensis</i>)	16%
Wild Rye	(<i>Elymus</i> ?)	16%
Sheep Fescue	(<i>Festuca ovina</i>)	16%
Red Fescue	(<i>Festuca rubra</i>)	12%
Common Timothy	(<i>Phleum pratense</i>)	10%
Alsike Clover	(<i>Trifolium hybridum</i>)	8%
Alfalfa	(<i>Medicago sativa</i>)	5%

This area has a variable cover, ranging from a few nearly bare patches to 100%.

The seeded cover is dominated by Fowl Bluegrass, Red Fescue and Common Timothy, with lesser amounts of Sheep Fescue, which occurs in patchy, dense clumps. There are also large patches of Alsike Clover and Alfalfa. There was no evidence of Kentucky Bluegrass or Wild Rye.

Colonizing species observed include Trembling Aspen (*Populus tremuloides*), Willows (*Salix sp*), Fireweed (*Epilobium angustifolium*) and Smooth Brome (*Bromus inermis*).

Pacific

Approximately 11.7 ha were broadcast-seeded in the fall of 2001 using the second 'Brewery Creek' seed mix. This mix included:

Violet Wheatgrass	(<i>Agropyron violaceum</i>)	35%
Slender Wheatgrass	(<i>Agropyron trachycaulus</i>)	13%
Fowl Bluegrass	(<i>Poa palustris</i>)	16%
Alpine Bluegrass	(<i>Poa alpina</i>)	13%
Sheep Fescue	(<i>Festuca ovina</i>)	13%
Rocky Mountain Fescue	(<i>Festuca saximontana</i>)	10%

This steep slope has a variable cover, ranging from 50-100%.

The seeded cover is dominated by Fowl Bluegrass, Violet and Slender Wheatgrass, Sheep and Rocky Mountain Fescue, with lesser amounts of Alpine Bluegrass.

Colonizing species observed include Fireweed (*Epilobium angustifolium*), Arctic Dock (*Rumex arcticus*), Common Timothy (*Phleum pratense*) and Blue-joint Reed Grass (*Calamagrostis canadensis*).

Main Haul Road

Approximately 24.0 ha were broadcast-seeded by ATV in the spring of 2005 using the leach pad seed mix.

The recently seeded haul road has good cover ranging from 70-100%.

Most of the haul road cover is a fairly even mix of Slender Wheatgrass, Kentucky Bluegrass, Red Fescue and Alfalfa.

Colonizing species observed include Annual Hawk's-beard (*Crepis tectorum*), Shepherd's-purse (*Capsella bursa-pastoris*) and Fireweed (*Epilobium angustifolium*).

Photographs of the various sites are included in Appendix B. The quality of some photos is poor due to smoke and hazy conditions resulting from a wildfire that was burning in the vicinity of Eagle, Alaska, during August 2005.

4.0 Recommendations

In order to improve the investigation into plant metal uptake at the Brewery Creek Mine, it is suggested that new control test plots be established farther from the mine site. There is only one common species with the current control plot and the mine site plots. The new control plots should be seeded with the same mixture as that applied to the Blue WRSA and the Leach Pad.

The new control plots could be established at a convenient location along the access road. These new plots would assist in the investigation into the uptake of metals by seeded plant species.

5.0 REFERENCES

Viceroy Minerals Corporation. March 2005. Blue Zone Monitoring and Assessment Program. Prepared under the Brewery Creek Mine Decommissioning and Reclamation Plan.

Viceroy Minerals Corporation. March 2005. Heap Leach Pad Cover and Facilities Monitoring Program. Prepared under the Brewery Creek Mine Decommissioning and Reclamation Plan.

Appendix A Laboratory Reports

Analytical Report for Metals in Soils

Analytical Report for Metals in Plant Tissues

Appendix B Photographic Record



Blue Zone: looking up slope at Plot # BZ-1. August 16, 2005.



Blue Zone: looking west to Plot # BZ-2. August 16, 2005.



Blue Zone: looking down slope to Plot # BZ-3. August 16, 2005.



Leach Pad: Plot # LP-1 located on top of the leach pad. August 16, 2005.



Leach Pad: Plot # LP-2 located on the north west facing slope. August 16, 2005.



Leach Pad: Plot # LP-3 located on the east side of the leach pad. August 16, 2005.



Leach Pad: natural invasion of raspberry shrubs near LP-1.



Control: Examining grass species in Plot # C-1. August 17, 2005.



Control: Assessing root depth penetration at Plot # C-2. August 17, 2005.



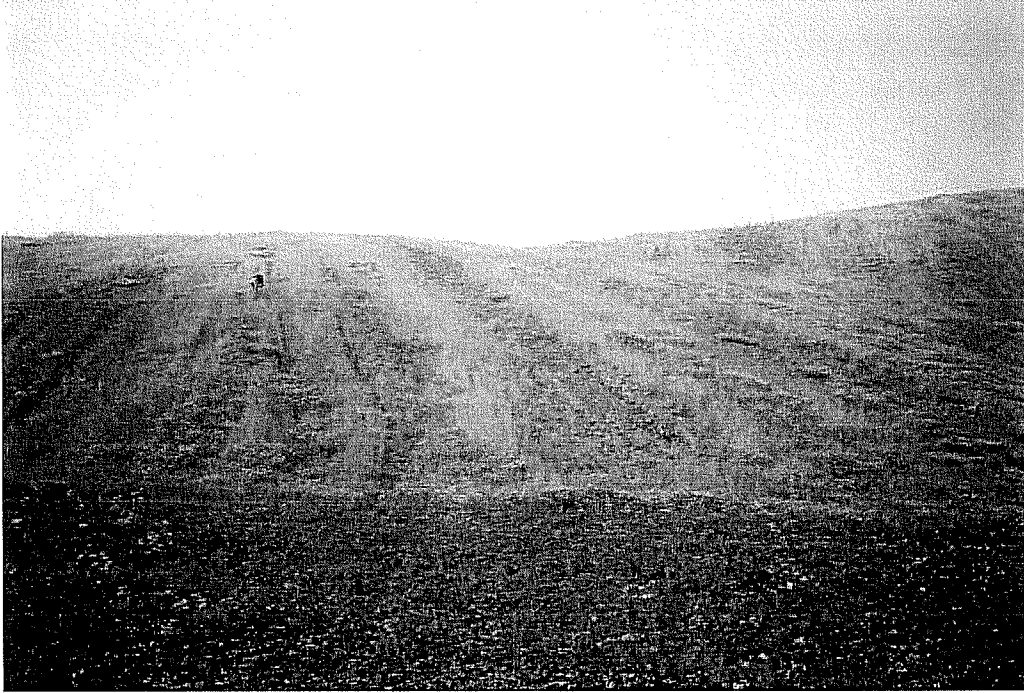
Control: Looking south to Plots C-3 (foreground), C-2 and C-1. August 17, 2005.



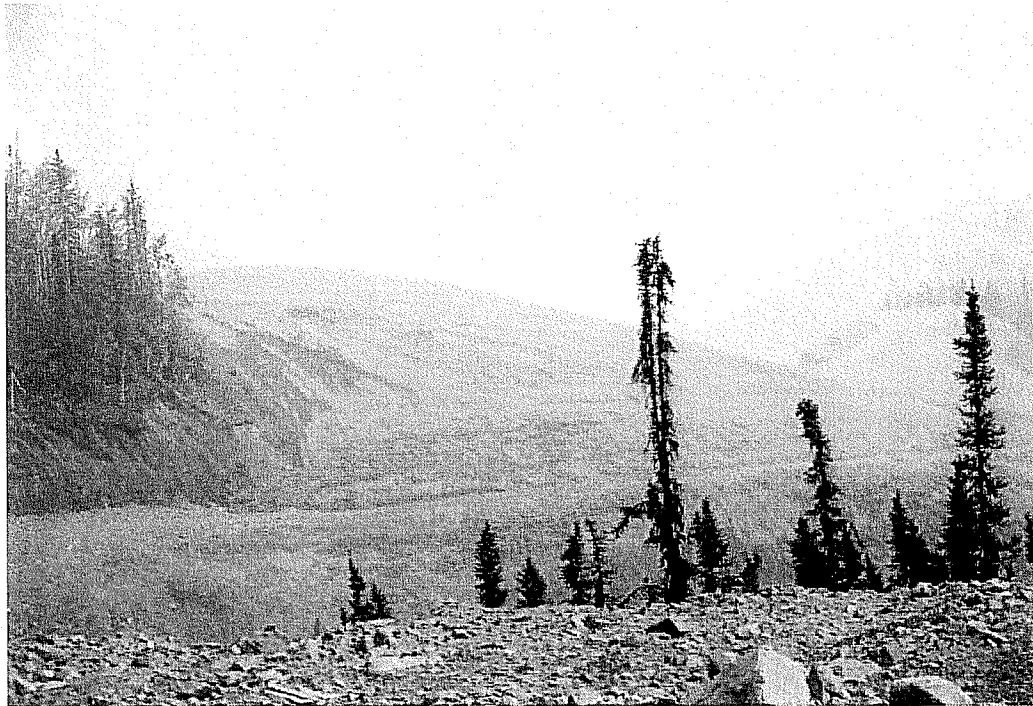
Moosehead: Willows are naturally colonizing the area. August 17, 2005.



Kokanee: Looking at the backfilled pit area. August 17, 2005.



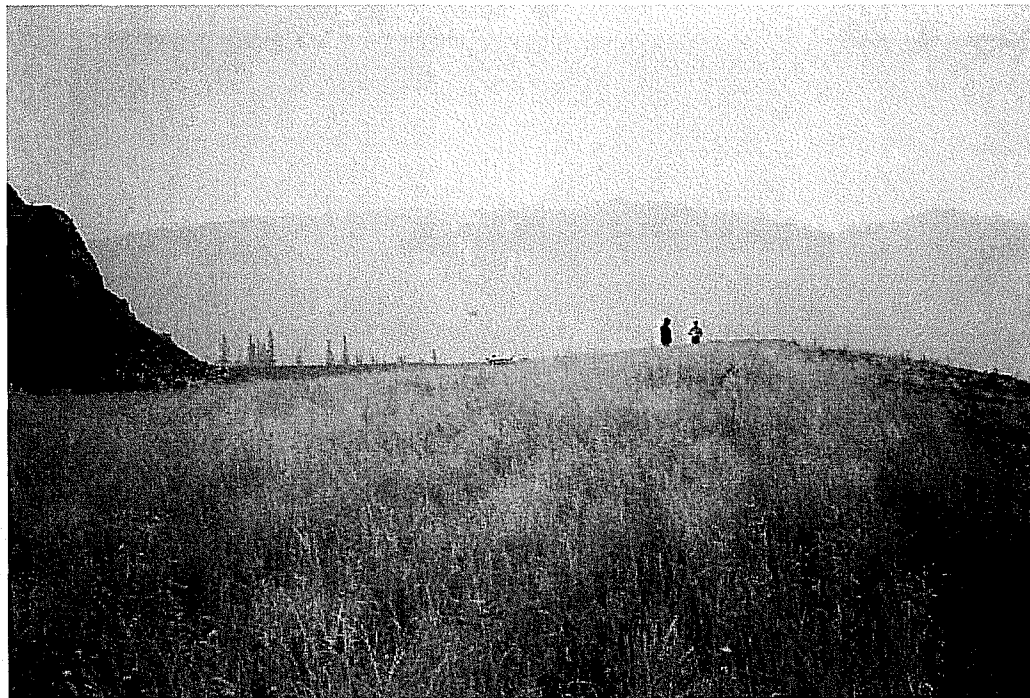
Golden: Good cover dominated by violet wheatgrass and white clover. Haul road in the foreground. August 17, 2005.



Lucky: Beginning of Lucky reclamation area. August 17, 2005.



Lucky: Looking toward pit. August 17, 2005.



Fosters: Looking toward Haul Road. August 17, 2005.



Lower Canadian: Looking up slope. Good seed cover dominated by violet wheatgrass and tufted hairgrass. August 17, 2005.



Canadian Knoll: Looking down south slope. August 17, 2005



Canadian Knoll: Volunteer willows near the top of Canadian Knoll. August 17, 2005.



Haul Road: Haul Road between Kokanee and Fosters, August 17, 2005



Environmental Sample Information Sheet

NOTE Proper completion of this form is required in order to proceed with analysis
See reverse for your nearest Norwest location and proper sampling protocol

Billing Address: Company: <i>Labege Environmental Services</i> Address: <i>P.O. Box 21072</i> <i>Whitehorse YT</i> <i>Y1A 6P7</i> Attention: <i>Bonnie Burns</i> Phone: <i>867-668-6838</i> Fax: Cell: e-mail: <i>labege@irtanorth.com</i>		Report To: QA/QC Report <input type="checkbox"/>	Copy of Report To: Company: Address:	Copy of invoice: Mail invoice to this address for approval <input type="checkbox"/>
Report Result: Fax <input type="checkbox"/> Mail <input type="checkbox"/> Courier <input type="checkbox"/> e-mail <input type="checkbox"/>		Report Result: Fax <input type="checkbox"/> Mail <input type="checkbox"/> Courier <input type="checkbox"/> e-mail <input type="checkbox"/>		

Information to be included on Report and Invoice Project ID: Project Name: <i>BREWERY CR.</i> Project Location: Legal Location: PO#: Proj. Acct. Code: Agreement ID:	RUSH Please contact the laboratory to confirm rush dates and times before submitting samples. Upon filling out this section, client accepts that surcharges will be attached to this analysis Required on: all analyses or as indicated <input type="checkbox"/> or <input type="checkbox"/> Date Required: _____ Signature: _____ Norwest Authorization: _____	Sample Custody (Please Print)	
		Sampled by: _____ Date _____ Company _____ Signature _____	Relinquished by: _____ Date _____ Company _____ Date _____ Waybill number: _____
Received by: _____ Date _____ Company _____ Date _____		Processed by: _____ Date _____ Norwest Labs _____ Date _____	

Special Instructions / Comments
Rinse plant material thoroughly with DI to remove dust etc, then analyze for metals.

Sample Identification	Location	Depth	Date / Time Sampled	Matrix	Sampling Method	Number of Containers	Enter tests above (✓ relevant samples below)												
							ICP metals												
1 BZ-1, Wheatgrass		-	Aug 16/05	tissue		1	✓												
2 BZ-1, Fescue		-	"	"		1	✓												
3 BZ-1, Bluegrass		-	"	"		1	✓												
4 BZ-1, alfalfa		-	"	"		1	✓												
5 LPBZ-2 BZ-2, Wheatgrass		-	"	"		1	✓												
6 LP BZ-2, Fescue		-	"	"		1	✓												
7 BZ-2, Bluegrass		-	"	"		1	✓												
8 BZ-2, alfalfa		-	"	"		1	✓												
9 BZ-3, Wheatgrass		-	"	"		1	✓												
10 BZ-3, Fescue		-	"	"		1	✓												
11 BZ-3, Bluegrass		-	"	"		1	✓												
12 BZ-3, alfalfa		-	"	"		1	✓												
13 LP-1, Wheatgrass		-	"	"		1	✓												
14 LP-1, Fescue		-	"	"		1	✓												



Report Transmission Cover Page

Norwest Labs
#104, 19575-55 A Ave.
Surrey, BC. V3S 8P8
Phone: (604) 514-3322
Fax: (604) 514-3323

Bill to: Laberge Environmental Services
Report to: Laberge Environmental Services
Box 21072
1-405 Ogilvie Street
Whitehorse, YT, Canada
Y1A 6P7
Attn: Bonnie Burns
Sampled By:
Company:

Project ID:
Name: Brewery Creek
Location:
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 403265
Control Number: E 30495
Date Received: Aug 22, 2005
Date Reported: Aug 29, 2005
Report Number: 737356

Contact	Company	Address									
Bonnie Burns Web Email Notification	Laberge Environmental Services	Box 21072, 1-405 Ogilvie Street Whitehorse, YT Y1A 6P7 Phone: (867) 668-6838 Email: laberge@internorth.com									
<table border="1"> <thead> <tr> <th>Copies</th> <th>Delivery Strategy</th> <th>Format</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Post</td> <td></td> </tr> <tr> <td>1</td> <td>Email - Single Report</td> <td>PDF</td> </tr> </tbody> </table>		Copies	Delivery Strategy	Format	1	Post		1	Email - Single Report	PDF	Fax: (867) 667-6956
Copies	Delivery Strategy	Format									
1	Post										
1	Email - Single Report	PDF									

Ken Nordin Web x Email Notification x	Laberge Environmental Services	Box 21072, 1-405 Ogilvie Street Whitehorse, YT Y1A 6P7 Phone: (867) 668-6838 Email: laberge@internorth.com						
<table border="1"> <thead> <tr> <th>Copies</th> <th>Delivery Strategy</th> <th>Format</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table>		Copies	Delivery Strategy	Format				Fax: (867) 667-6956
Copies	Delivery Strategy	Format						

NOTE: P indicates a preliminary report is required
NOTE: A indicates report is delivered using automated delivery

_____ # OF PAGES IN THIS TRANSMISSION

Report Transmission Notes

Agreement Notes

Lot Notes

Sample Notes:

<p>Notes to Clients</p> <p><u>Lot Notes:</u></p> <p><u>Sample Notes:</u></p> <p><u>Batch Notes:</u></p> <p><u>Method Notes:</u></p> <p><u>Method Result Notes:</u></p>

Reports associated with this Lot

<u>Id/Format/Reported Date</u>	<u>Id/Format/Reported Date</u>	<u>Id/Format/Reported Date</u>
737356 Env2 3 Smp & DL		

Comment:

See Methodology and Notes page of Analytical Report for all comments pertaining to this report.

If this report transmission is not satisfactory, please send report requirements to the address at the top of this page.

8/29/05 737356 29-Aug-2005



Sample Custody

Norwest Labs
#104, 19575-55 A Ave.
Surrey, BC. V3S 8P8
Phone: (604) 514-3322
Fax: (604) 514-3323

Bill to: Laberge Environmental Services
Report to: Laberge Environmental Services
Box 21072
1-405 Ogilvie Street
Whitehorse, YT, Canada
Y1A 6P7
Attn: Bonnie Burns
Sampled By:
Company:

Project
ID:
Name: Brewery Creek
Location:
LSD:
P.O.:
Acct. Code:

NWL Lot ID: **403265**
Control Number: E 30495
Date Received: Aug 22, 2005
Date Reported: Aug 29, 2005
Report Number: 737356

Sample Disposal Date: Sep 28, 2005

All samples will be stored until this date unless other instructions are received. Please indicate other requirements below and return this form to the address or fax number on the upper right of this page.

_____ Extend Sample Storage Until _____ (MM/DD/YY)

The following charges apply to extended sample storage:

Storage for 1 to 5 samples per month	\$ 10.00
Storage for 6 to 20 samples per month	\$ 15.00
Storage for 21 to 50 samples per month	\$ 30.00
Storage for 51 to 200 samples per month	\$ 60.00
Storage for more than 200 samples per month	\$ 110.00

_____ Return Sample, collect, to the address below via:

- _____ Greyhound
- _____ Loomis
- _____ Purolator
- _____ Other (Specify) _____

Name: _____
 Company: _____
 Address: _____

 Phone: _____
 Fax: _____
 Signature: _____

If no other arrangements have been made, samples will be disposed of on Sep 28, 2005.



Analytical Report

Norwest Labs
 #104, 19575-55 A Ave.
 Surrey, BC. V3S 8P8
 Phone: (604) 514-3322
 Fax: (604) 514-3323

Bill to: Laberge Environmental Services
Report to: Laberge Environmental Services
 Box 21072
 1-405 Ogilvie Street
 Whitehorse, YT, Canada
 Y1A 6P7
 Attn: Bonnie Burns
 Sampled By:
 Company:

Project ID:
Name: Brewery Creek
Location:
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 403265
Control Number: E 30495
Date Received: Aug 22, 2005
Date Reported: Aug 29, 2005
Report Number: 737356

Analyte	Units	NWL Number	403265-1	403265-2	403265-3	Detection Limit
		Sample Date	Aug 16, 2005	Aug 16, 2005	Aug 16, 2005	
		Sample Description	BZ-1, Wheatgrass Tissue	BZ-1, Fescue Tissue	BZ-1, Bluegrass Tissue	
Metals Total						
Aluminum	Total (dry weight)	ug/g	585	597	978	1
Antimony	Total (dry weight)	ug/g	<1	<1	2	3
Arsenic	Total (dry weight)	ug/g	4.3	4.5	8.13	0.7
Barium	Total (dry weight)	ug/g	94.6	94.1	128	0.4
Beryllium	Total (dry weight)	ug/g	0.01	0.01	0.03	0.01
Bismuth	Total (dry weight)	ug/g	<1	<1	<1	3
Cadmium	Total (dry weight)	ug/g	0.1	0.09	0.1	0.1
Calcium	Total (dry weight)	ug/g	2910	2310	3590	1
Chromium	Total (dry weight)	ug/g	0.56	0.59	1.1	0.2
Cobalt	Total (dry weight)	ug/g	0.52	0.5	0.78	0.2
Copper	Total (dry weight)	ug/g	9.12	9.29	11.0	0.2
Iron	Total (dry weight)	ug/g	290	260	515	0.4
Lead	Total (dry weight)	ug/g	0.66	<0.5	0.83	1
Lithium	Total (dry weight)	ug/g	0.51	0.5	0.69	0.3
Magnesium	Total (dry weight)	ug/g	782	877	1020	2
Manganese	Total (dry weight)	ug/g	205	219	167	0.1
Mercury	Total (dry weight)	ug/g	0.015	0.011	0.026	0.005
Molybdenum	Total (dry weight)	ug/g	0.4	0.76	1.0	0.2
Nickel	Total (dry weight)	ug/g	2.0	3.3	3.6	0.5
Phosphorus	Total (dry weight)	ug/g	904	1490	789	2
Potassium	Total (dry weight)	ug/g	7200	8230	6550	4
Selenium	Total (dry weight)	ug/g	<0.5	0.52	0.54	1
Silicon	Total (dry weight)	ug/g	2450	2540	2430	0.3
Silver	Total (dry weight)	ug/g	<0.4	<0.4	<0.4	0.7
Sodium	Total (dry weight)	ug/g	30	40	63	0.2
Strontium	Total (dry weight)	ug/g	25.6	21.4	31.3	0.01
Tin	Total (dry weight)	ug/g	1.1	1.3	1.2	1
Titanium	Total (dry weight)	ug/g	6.04	8.31	14.0	0.2
Vanadium	Total (dry weight)	ug/g	1.2	1.5	2.8	0.4
Zinc	Total (dry weight)	ug/g	34.1	30.3	41.6	0.1
Zirconium	Total (dry weight)	ug/g	0.3	0.3	0.5	0.2



Analytical Report

Norwest Labs
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 Surrey, BC. V3S 8P8
 Phone: (604) 514-3322
 Fax: (604) 514-3323

Bill to: Laberge Environmental Services
 Report to: Laberge Environmental Services
 Box 21072
 1-405 Ogilvie Street
 Whitehorse, YT, Canada
 Y1A 6P7
 Attn: Bonnie Burns
 Sampled By:
 Company:

Project ID:
 Name: Brewery Creek
 Location:
 LSD:
 P.O.:
 Acct. Code:

NWL Lot ID: **403265**
 Control Number: E 30495
 Date Received: Aug 22, 2005
 Date Reported: Aug 29, 2005
 Report Number: 737356

Analyte	Units	NWL Number	403265-4	403265-5	403265-6	Detection Limit
		Sample Date	Aug 16, 2005	Aug 16, 2005	Aug 16, 2005	
		Sample Description	BZ-1, Alfalfa Tissue	BZ-2, Wheatgrass Tissue	BZ-2, Fescue Tissue	
Metals Total						
Aluminum	Total (dry weight)	ug/g	260	602	474	1
Antimony	Total (dry weight)	ug/g	<1	<1	<1	3
Arsenic	Total (dry weight)	ug/g	3.9	2.3	2.9	0.7
Barium	Total (dry weight)	ug/g	72.0	56.5	84.8	0.4
Beryllium	Total (dry weight)	ug/g	0.01	0.005	0.01	0.01
Bismuth	Total (dry weight)	ug/g	<1	<1	<1	3
Cadmium	Total (dry weight)	ug/g	1.4	0.2	0.4	0.1
Calcium	Total (dry weight)	ug/g	29900	3040	3970	1
Chromium	Total (dry weight)	ug/g	<0.1	0.4	0.4	0.2
Cobalt	Total (dry weight)	ug/g	0.4	0.2	0.4	0.2
Copper	Total (dry weight)	ug/g	10.4	11.0	10.5	0.2
Iron	Total (dry weight)	ug/g	172	194	262	0.4
Lead	Total (dry weight)	ug/g	<0.5	0.59	<0.5	1
Lithium	Total (dry weight)	ug/g	1.8	0.53	0.56	0.3
Magnesium	Total (dry weight)	ug/g	3560	800	1130	2
Manganese	Total (dry weight)	ug/g	126	131	235	0.1
Mercury	Total (dry weight)	ug/g	0.010	0.016	0.018	0.005
Molybdenum	Total (dry weight)	ug/g	0.75	1.4	1.8	0.2
Nickel	Total (dry weight)	ug/g	15.5	1.8	3.9	0.5
Phosphorus	Total (dry weight)	ug/g	1810	1560	2030	2
Potassium	Total (dry weight)	ug/g	15300	7230	10400	4
Selenium	Total (dry weight)	ug/g	2.5	0.64	0.68	1
Silicon	Total (dry weight)	ug/g	485	2640	2900	0.3
Silver	Total (dry weight)	ug/g	<0.4	<0.4	<0.4	0.7
Sodium	Total (dry weight)	ug/g	67	40	50	0.2
Strontium	Total (dry weight)	ug/g	148	16.5	23.9	0.01
Tin	Total (dry weight)	ug/g	1.0	1.3	1.2	1
Titanium	Total (dry weight)	ug/g	3.8	6.96	9.08	0.2
Vanadium	Total (dry weight)	ug/g	0.68	1.0	1.2	0.4
Zinc	Total (dry weight)	ug/g	53.9	33.6	32.8	0.1
Zirconium	Total (dry weight)	ug/g	0.2	0.2	0.2	0.2



Analytical Report

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 #104, 19575-55 A Ave.
 Surrey, BC. V3S 8P8
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 Fax: (604) 514-3323

Bill to: Laberge Environmental Services
 Report to: Laberge Environmental Services
 Box 21072
 1-405 Ogilvie Street
 Whitehorse, YT, Canada
 Y1A 6P7
 Attn: Bonnie Burns
 Sampled By:
 Company:

Project
 ID:
 Name: Brewery Creek
 Location:
 LSD:
 P.O.:
 Acct. Code:

NWL Lot ID: **403265**
 Control Number: E 30495
 Date Received: Aug 22, 2005
 Date Reported: Aug 29, 2005
 Report Number: 737356

Analyte	Units	Results	Results	Results	Detection Limit
Metals Total					
Aluminum	Total (dry weight)	ug/g 890	345	1130	1
Antimony	Total (dry weight)	ug/g <1	<1	<1	3
Arsenic	Total (dry weight)	ug/g 4.8	2.4	3.4	0.7
Barium	Total (dry weight)	ug/g 127	729	118	0.4
Beryllium	Total (dry weight)	ug/g 0.02	0.03	0.050	0.01
Bismuth	Total (dry weight)	ug/g <1	<1	<1	3
Cadmium	Total (dry weight)	ug/g 0.2	2.3	0.1	0.1
Calcium	Total (dry weight)	ug/g 4120	42600	2950	1
Chromium	Total (dry weight)	ug/g 0.84	<0.1	1.3	0.2
Cobalt	Total (dry weight)	ug/g 0.80	0.3	0.90	0.2
Copper	Total (dry weight)	ug/g 14.3	10.2	10.9	0.2
Iron	Total (dry weight)	ug/g 454	206	2270	0.4
Lead	Total (dry weight)	ug/g 0.70	<0.5	0.76	1
Lithium	Total (dry weight)	ug/g 0.71	2.7	0.81	0.3
Magnesium	Total (dry weight)	ug/g 1360	4310	775	2
Manganese	Total (dry weight)	ug/g 238	162	273	0.1
Mercury	Total (dry weight)	ug/g 0.030	0.007	0.018	0.005
Molybdenum	Total (dry weight)	ug/g 1.4	0.90	0.3	0.2
Nickel	Total (dry weight)	ug/g 3.6	12.1	3.7	0.5
Phosphorus	Total (dry weight)	ug/g 1330	1410	928	2
Potassium	Total (dry weight)	ug/g 7860	13400	8140	4
Selenium	Total (dry weight)	ug/g 0.70	0.98	<0.5	1
Silicon	Total (dry weight)	ug/g 2810	311	2450	0.3
Silver	Total (dry weight)	ug/g <0.4	<0.4	<0.4	0.7
Sodium	Total (dry weight)	ug/g 66	71	63	0.2
Strontium	Total (dry weight)	ug/g 30.2	258	26.7	0.01
Tin	Total (dry weight)	ug/g 1.2	1.1	1.2	1
Titanium	Total (dry weight)	ug/g 13.4	7.32	15.2	0.2
Vanadium	Total (dry weight)	ug/g 2.3	0.82	3.2	0.4
Zinc	Total (dry weight)	ug/g 45.0	76.5	29.6	0.1
Zirconium	Total (dry weight)	ug/g 0.4	0.3	0.66	0.2



Analytical Report

Norwest Labs
 #104, 19575-55 A Ave.
 Surrey, BC. V3S 8P8
 Phone: (604) 514-3322
 Fax: (604) 514-3323

Bill to: Laberge Environmental Services
 Report to: Laberge Environmental Services
 Box 21072
 1-405 Ogilvie Street
 Whitehorse, YT, Canada
 Y1A 6P7
 Attn: Bonnie Burns
 Sampled By:
 Company:

Project
 ID:
 Name: Brewery Creek
 Location:
 LSD:
 P.O.:
 Acct. Code:

NWL Lot ID: **403265**
 Control Number: E 30495
 Date Received: Aug 22, 2005
 Date Reported: Aug 29, 2005
 Report Number: 737356

Analyte	Units	NWL Number	403265-10	403265-11	403265-12	Detection Limit
		Sample Date	Aug 16, 2005	Aug 16, 2005	Aug 16, 2005	
		Sample Description	BZ-3, Fescue	BZ-3, Bluegrass	BZ-3, Alfalfa	
		Matrix	Tissue	Tissue	Tissue	
Metals Total						
Aluminum	Total (dry weight)	ug/g	518	664	437	1
Antimony	Total (dry weight)	ug/g	<1	<1	<1	3
Arsenic	Total (dry weight)	ug/g	1.4	2.7	1.6	0.7
Barium	Total (dry weight)	ug/g	105	137	1070	0.4
Beryllium	Total (dry weight)	ug/g	0.01	0.01	0.04	0.01
Bismuth	Total (dry weight)	ug/g	<1	<1	<1	3
Cadmium	Total (dry weight)	ug/g	0.09	0.1	1.3	0.1
Calcium	Total (dry weight)	ug/g	2340	3770	31200	1
Chromium	Total (dry weight)	ug/g	0.4	0.65	0.1	0.2
Cobalt	Total (dry weight)	ug/g	0.4	0.93	0.99	0.2
Copper	Total (dry weight)	ug/g	9.59	12.0	8.45	0.2
Iron	Total (dry weight)	ug/g	206	376	236	0.4
Lead	Total (dry weight)	ug/g	<0.5	0.60	0.55	1
Lithium	Total (dry weight)	ug/g	0.4	0.61	2.0	0.3
Magnesium	Total (dry weight)	ug/g	846	1030	3560	2
Manganese	Total (dry weight)	ug/g	325	192	424	0.1
Mercury	Total (dry weight)	ug/g	0.010	0.018	0.010	0.005
Molybdenum	Total (dry weight)	ug/g	0.4	0.62	0.3	0.2
Nickel	Total (dry weight)	ug/g	4.4	3.6	13.7	0.5
Phosphorus	Total (dry weight)	ug/g	1390	998	1800	2
Potassium	Total (dry weight)	ug/g	9660	8140	15500	4
Selenium	Total (dry weight)	ug/g	<0.5	<0.5	0.55	1
Silicon	Total (dry weight)	ug/g	2470	2500	465	0.3
Silver	Total (dry weight)	ug/g	<0.4	<0.4	<0.4	0.7
Sodium	Total (dry weight)	ug/g	40	58	110	0.2
Strontium	Total (dry weight)	ug/g	21.0	30.6	245	0.01
Tin	Total (dry weight)	ug/g	1.3	1.2	1.1	1
Titanium	Total (dry weight)	ug/g	7.65	11.7	8.87	0.2
Vanadium	Total (dry weight)	ug/g	1.0	1.7	1.1	0.4
Zinc	Total (dry weight)	ug/g	24.4	29.8	59.0	0.1
Zirconium	Total (dry weight)	ug/g	0.2	0.3	0.4	0.2



Analytical Report

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NWL Lot ID: 403265
Control Number: E 30495
Date Received: Aug 22, 2005
Date Reported: Aug 29, 2005
Report Number: 737356

Analyte	Units	NWL Number	403265-13	403265-14	403265-15	Detection Limit
		Sample Date	Aug 16, 2005	Aug 16, 2005	Aug 16, 2005	
		Sample Description	LP-1, Wheatgrass	LP-1, Fescue	LP-1, Bluegrass	
		Matrix	Tissue	Tissue	Tissue	
Metals Total						
Aluminum	Total (dry weight)	ug/g	392	711	1080	1
Antimony	Total (dry weight)	ug/g	<1	2	2	3
Arsenic	Total (dry weight)	ug/g	0.62	2.4	2.0	0.7
Barium	Total (dry weight)	ug/g	54.5	35.6	99.2	0.4
Beryllium	Total (dry weight)	ug/g	<0.005	0.01	0.02	0.01
Bismuth	Total (dry weight)	ug/g	<1	<1	<1	3
Cadmium	Total (dry weight)	ug/g	0.5	0.61	0.62	0.1
Calcium	Total (dry weight)	ug/g	2710	4910	5280	1
Chromium	Total (dry weight)	ug/g	0.3	0.71	1.2	0.2
Cobalt	Total (dry weight)	ug/g	0.5	0.62	1.0	0.2
Copper	Total (dry weight)	ug/g	9.39	8.51	14.3	0.2
Iron	Total (dry weight)	ug/g	144	358	574	0.4
Lead	Total (dry weight)	ug/g	<0.5	0.50	0.59	1
Lithium	Total (dry weight)	ug/g	0.4	0.77	1.1	0.3
Magnesium	Total (dry weight)	ug/g	843	1510	1930	2
Manganese	Total (dry weight)	ug/g	279	503	388	0.1
Mercury	Total (dry weight)	ug/g	0.007	0.008	0.011	0.005
Molybdenum	Total (dry weight)	ug/g	0.3	1.6	0.66	0.2
Nickel	Total (dry weight)	ug/g	2.5	4.5	5.88	0.5
Phosphorus	Total (dry weight)	ug/g	862	994	911	2
Potassium	Total (dry weight)	ug/g	7880	10000	10100	4
Selenium	Total (dry weight)	ug/g	1.2	2.4	2.4	1
Silicon	Total (dry weight)	ug/g	3010	2540	2290	0.3
Silver	Total (dry weight)	ug/g	<0.4	<0.4	<0.4	0.7
Sodium	Total (dry weight)	ug/g	20	110	160	0.2
Strontium	Total (dry weight)	ug/g	17.5	24.6	31.8	0.01
Tin	Total (dry weight)	ug/g	1.2	1.1	1.3	1
Titanium	Total (dry weight)	ug/g	3.9	15.3	21.8	0.2
Vanadium	Total (dry weight)	ug/g	0.4	1.8	3.3	0.4
Zinc	Total (dry weight)	ug/g	47.6	43.6	63.2	0.1
Zirconium	Total (dry weight)	ug/g	0.1	0.4	0.58	0.2



Analytical Report

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LSD:
P.O.:
Acct. Code:

NWL Lot ID: 403265
Control Number: E 30495
Date Received: Aug 22, 2005
Date Reported: Aug 29, 2005
Report Number: 737356

Analyte	Units	NWL Number	403265-16	403265-17	403265-18	Detection Limit
		Sample Date	Aug 16, 2005	Aug 16, 2005	Aug 16, 2005	
		Sample Description	LP-1, Alfalfa Tissue	LP-2, Wheatgrass Tissue	LP-2, Fescue Tissue	
Metals Total						
Aluminum	Total (dry weight)	ug/g	313	408	251	1
Antimony	Total (dry weight)	ug/g	2	<1	<1	3
Arsenic	Total (dry weight)	ug/g	2.4	1.1	1.4	0.7
Barium	Total (dry weight)	ug/g	193	50.0	30.3	0.4
Beryllium	Total (dry weight)	ug/g	<0.005	<0.005	<0.005	0.01
Bismuth	Total (dry weight)	ug/g	<1	<1	<1	3
Cadmium	Total (dry weight)	ug/g	2.3	0.4	0.4	0.1
Calcium	Total (dry weight)	ug/g	31300	2380	2940	1
Chromium	Total (dry weight)	ug/g	<0.1	0.2	0.2	0.2
Cobalt	Total (dry weight)	ug/g	0.64	0.3	0.59	0.2
Copper	Total (dry weight)	ug/g	7.88	10.5	7.39	0.2
Iron	Total (dry weight)	ug/g	166	101	115	0.4
Lead	Total (dry weight)	ug/g	<0.5	0.71	<0.5	1
Lithium	Total (dry weight)	ug/g	1.9	0.4	0.4	0.3
Magnesium	Total (dry weight)	ug/g	3600	607	1070	2
Manganese	Total (dry weight)	ug/g	299	210	440	0.1
Mercury	Total (dry weight)	ug/g	0.005	0.005	0.005	0.005
Molybdenum	Total (dry weight)	ug/g	0.97	0.2	2.4	0.2
Nickel	Total (dry weight)	ug/g	7.33	1.6	4.0	0.5
Phosphorus	Total (dry weight)	ug/g	1290	837	1120	2
Potassium	Total (dry weight)	ug/g	13000	6500	8860	4
Selenium	Total (dry weight)	ug/g	4.0	0.72	1.1	1
Silicon	Total (dry weight)	ug/g	280	2550	2460	0.3
Silver	Total (dry weight)	ug/g	<0.4	<0.4	<0.4	0.7
Sodium	Total (dry weight)	ug/g	120	10	20	0.2
Strontium	Total (dry weight)	ug/g	131	16.2	16.4	0.01
Tin	Total (dry weight)	ug/g	1.0	1.3	1.2	1
Titanium	Total (dry weight)	ug/g	7.51	2.2	3.4	0.2
Vanadium	Total (dry weight)	ug/g	0.69	0.4	0.4	0.4
Zinc	Total (dry weight)	ug/g	67.0	40.5	33.4	0.1
Zirconium	Total (dry weight)	ug/g	0.2	<0.1	<0.1	0.2



Analytical Report

Norwest Labs
 #104, 19575-55 A Ave.
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 Phone: (604) 514-3322
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Bill to: Laberge Environmental Services
Report to: Laberge Environmental Services
 Box 21072
 1-405 Ogilvie Street
 Whitehorse, YT, Canada
 Y1A 6P7
 Attn: Bonnie Burns
 Sampled By:
 Company:

Project
ID:
Name: Brewery Creek
Location:
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NWL Lot ID: 403265
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Analyte	Units	NWL Number		Detection Limit		
		403265-19	403265-20	403265-21		
		Sample Date	Aug 16, 2005	Aug 16, 2005	Aug 16, 2005	
		Sample Description	LP-2, Bluegrass	LP-2, Alfalfa	LP-3, Wheatgrass	
		Matrix	Tissue	Tissue	Tissue	
Metals Total						
Aluminum	Total (dry weight)	ug/g	433	428	524	1
Antimony	Total (dry weight)	ug/g	<1	5.6	<1	3
Arsenic	Total (dry weight)	ug/g	0.80	2.4	0.58	0.7
Barium	Total (dry weight)	ug/g	103	530	26.8	0.4
Beryllium	Total (dry weight)	ug/g	0.005	0.02	<0.005	0.01
Bismuth	Total (dry weight)	ug/g	<1	<1	<1	3
Cadmium	Total (dry weight)	ug/g	0.4	3.8	0.1	0.1
Calcium	Total (dry weight)	ug/g	3800	44700	2310	1
Chromium	Total (dry weight)	ug/g	0.3	<0.1	0.3	0.2
Cobalt	Total (dry weight)	ug/g	0.82	1.6	0.4	0.2
Copper	Total (dry weight)	ug/g	12.5	7.92	12.6	0.2
Iron	Total (dry weight)	ug/g	224	237	114	0.4
Lead	Total (dry weight)	ug/g	0.63	<0.5	0.65	1
Lithium	Total (dry weight)	ug/g	0.54	2.8	0.5	0.3
Magnesium	Total (dry weight)	ug/g	1670	4620	684	2
Manganese	Total (dry weight)	ug/g	470	702	196	0.1
Mercury	Total (dry weight)	ug/g	0.014	0.008	0.003	0.005
Molybdenum	Total (dry weight)	ug/g	0.65	1.6	0.3	0.2
Nickel	Total (dry weight)	ug/g	5.65	10.3	1.8	0.5
Phosphorus	Total (dry weight)	ug/g	1070	896	1080	2
Potassium	Total (dry weight)	ug/g	12000	12300	7320	4
Selenium	Total (dry weight)	ug/g	1.2	2.1	1.1	1
Silicon	Total (dry weight)	ug/g	2990	550	1560	0.3
Silver	Total (dry weight)	ug/g	<0.4	<0.4	<0.4	0.7
Sodium	Total (dry weight)	ug/g	30	180	20	0.2
Strontium	Total (dry weight)	ug/g	26.5	221	13.9	0.01
Tin	Total (dry weight)	ug/g	1.2	0.96	1.3	1
Titanium	Total (dry weight)	ug/g	5.64	8.68	2.7	0.2
Vanadium	Total (dry weight)	ug/g	1.0	1.2	0.3	0.4
Zinc	Total (dry weight)	ug/g	53.8	106	40.6	0.1
Zirconium	Total (dry weight)	ug/g	0.2	0.3	0.1	0.2



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 Y1A 6P7
 Attn: Bonnie Burns
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NWL Lot ID: **403265**
 Control Number: E 30495
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Analyte	Units	NWL Number 403265-22		NWL Number 403265-23		NWL Number 403265-24	
		Sample Date	Sample Description	Sample Date	Sample Description	Sample Date	Sample Description
		Matrix	Tissue	Matrix	Tissue	Matrix	Tissue
Metals Total							
Aluminum	Total (dry weight)	ug/g	477	ug/g	530	ug/g	390
Antimony	Total (dry weight)	ug/g	<1	ug/g	<1	ug/g	2
Arsenic	Total (dry weight)	ug/g	0.64	ug/g	0.80	ug/g	1.6
Barium	Total (dry weight)	ug/g	85.6	ug/g	93.3	ug/g	210
Beryllium	Total (dry weight)	ug/g	0.005	ug/g	0.005	ug/g	<0.005
Bismuth	Total (dry weight)	ug/g	<1	ug/g	<1	ug/g	<1
Cadmium	Total (dry weight)	ug/g	0.3	ug/g	0.2	ug/g	1.2
Calcium	Total (dry weight)	ug/g	3500	ug/g	4420	ug/g	30800
Chromium	Total (dry weight)	ug/g	0.4	ug/g	0.4	ug/g	0.1
Cobalt	Total (dry weight)	ug/g	0.79	ug/g	0.97	ug/g	1.1
Copper	Total (dry weight)	ug/g	10.1	ug/g	13.7	ug/g	7.40
Iron	Total (dry weight)	ug/g	241	ug/g	299	ug/g	194
Lead	Total (dry weight)	ug/g	<0.5	ug/g	0.54	ug/g	<0.5
Lithium	Total (dry weight)	ug/g	0.99	ug/g	0.67	ug/g	2.0
Magnesium	Total (dry weight)	ug/g	1300	ug/g	1370	ug/g	3060
Manganese	Total (dry weight)	ug/g	477	ug/g	388	ug/g	470
Mercury	Total (dry weight)	ug/g	0.0070	ug/g	0.011	ug/g	0.0055
Molybdenum	Total (dry weight)	ug/g	0.3	ug/g	0.58	ug/g	0.69
Nickel	Total (dry weight)	ug/g	4.3	ug/g	4.0	ug/g	6.23
Phosphorus	Total (dry weight)	ug/g	1100	ug/g	941	ug/g	984
Potassium	Total (dry weight)	ug/g	10600	ug/g	10300	ug/g	11400
Selenium	Total (dry weight)	ug/g	0.90	ug/g	0.96	ug/g	1.9
Silicon	Total (dry weight)	ug/g	2460	ug/g	2700	ug/g	420
Silver	Total (dry weight)	ug/g	<0.4	ug/g	<0.4	ug/g	<0.4
Sodium	Total (dry weight)	ug/g	54	ug/g	40	ug/g	240
Strontium	Total (dry weight)	ug/g	24.8	ug/g	29.2	ug/g	150
Tin	Total (dry weight)	ug/g	1.2	ug/g	1.2	ug/g	0.97
Titanium	Total (dry weight)	ug/g	8.16	ug/g	7.71	ug/g	9.30
Vanadium	Total (dry weight)	ug/g	0.82	ug/g	0.87	ug/g	0.86
Zinc	Total (dry weight)	ug/g	39.8	ug/g	47.9	ug/g	39.3
Zirconium	Total (dry weight)	ug/g	0.2	ug/g	0.2	ug/g	0.4



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Report to: Laberge Environmental Services
 Box 21072
 1-405 Ogilvie Street
 Whitehorse, YT, Canada
 Y1A 6P7
 Attn: Bonnie Burns
 Sampled By:
 Company:

Project ID:
Name: Brewery Creek
Location:
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NWL Lot ID: 403265
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Analyte	Units	NWL Number	403265-25	403265-26	403265-27	Detection Limit
		Sample Date	Aug 16, 2005	Aug 17, 2005	Aug 17, 2005	
		Sample Description	C-1, Wheatgrass	C-1, Fescue	C-1, Bluegrass	
		Matrix	Tissue	Tissue	Tissue	
Metals Total						
Aluminum	Total (dry weight)	ug/g	262	155	1860	1
Antimony	Total (dry weight)	ug/g	<1	<1	<1	3
Arsenic	Total (dry weight)	ug/g	<0.3	<0.4	<0.3	0.7
Barium	Total (dry weight)	ug/g	40.8	31.4	62.2	0.4
Beryllium	Total (dry weight)	ug/g	<0.005	<0.005	<0.005	0.01
Bismuth	Total (dry weight)	ug/g	<1	<1	<1	3
Cadmium	Total (dry weight)	ug/g	0.1	0.68	0.5	0.1
Calcium	Total (dry weight)	ug/g	1420	1430	2350	1
Chromium	Total (dry weight)	ug/g	<0.1	<0.1	0.72	0.2
Cobalt	Total (dry weight)	ug/g	0.2	0.2	0.4	0.2
Copper	Total (dry weight)	ug/g	8.12	6.76	43.7	0.2
Iron	Total (dry weight)	ug/g	55.0	72.8	107	0.4
Lead	Total (dry weight)	ug/g	<0.5	<0.5	2.1	1
Lithium	Total (dry weight)	ug/g	0.3	0.3	0.4	0.3
Magnesium	Total (dry weight)	ug/g	586	791	940	2
Manganese	Total (dry weight)	ug/g	110	172	280	0.1
Mercury	Total (dry weight)	ug/g	0.004	0.0050	0.0060	0.005
Molybdenum	Total (dry weight)	ug/g	0.50	1.5	4.2	0.2
Nickel	Total (dry weight)	ug/g	1.1	2.5	4.0	0.5
Phosphorus	Total (dry weight)	ug/g	1400	1790	1640	2
Potassium	Total (dry weight)	ug/g	6860	8110	6190	4
Selenium	Total (dry weight)	ug/g	<0.5	<0.5	<0.5	1
Silicon	Total (dry weight)	ug/g	3320	2980	2750	0.3
Silver	Total (dry weight)	ug/g	<0.4	<0.4	0.51	0.7
Sodium	Total (dry weight)	ug/g	<5	9	<5	0.2
Strontium	Total (dry weight)	ug/g	7.61	8.34	13.2	0.01
Tin	Total (dry weight)	ug/g	1.3	1.2	1.6	1
Titanium	Total (dry weight)	ug/g	0.4	1.2	1.0	0.2
Vanadium	Total (dry weight)	ug/g	<0.2	<0.2	<0.2	0.4
Zinc	Total (dry weight)	ug/g	41.3	25.0	122	0.1
Zirconium	Total (dry weight)	ug/g	<0.1	<0.1	0.2	0.2



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Analyte	Units	NWL Number	403265-28	403265-29	403265-30	Detection Limit
		Sample Date	Aug 17, 2005	Aug 17, 2005	Aug 17, 2005	
		Sample Description	C-2, Wheatgrass	C-2, Fescue	C-2, Bluegrass	
		Matrix	Tissue	Tissue	Tissue	
Metals Total						
Aluminum	Total (dry weight)	ug/g	301	124	1640	1
Antimony	Total (dry weight)	ug/g	<1	<1	<1	3
Arsenic	Total (dry weight)	ug/g	0.4	<0.4	<0.3	0.7
Barium	Total (dry weight)	ug/g	59.7	35.7	62.0	0.4
Beryllium	Total (dry weight)	ug/g	<0.005	<0.005	<0.005	0.01
Bismuth	Total (dry weight)	ug/g	<1	<1	<1	3
Cadmium	Total (dry weight)	ug/g	0.2	0.4	0.3	0.1
Calcium	Total (dry weight)	ug/g	1780	1420	1830	1
Chromium	Total (dry weight)	ug/g	0.1	<0.1	0.67	0.2
Cobalt	Total (dry weight)	ug/g	0.2	0.1	0.5	0.2
Copper	Total (dry weight)	ug/g	9.04	6.71	38.9	0.2
Iron	Total (dry weight)	ug/g	65.9	57.9	106	0.4
Lead	Total (dry weight)	ug/g	<0.5	<0.5	1.9	1
Lithium	Total (dry weight)	ug/g	0.3	0.3	0.4	0.3
Magnesium	Total (dry weight)	ug/g	679	857	813	2
Manganese	Total (dry weight)	ug/g	195	270	238	0.1
Mercury	Total (dry weight)	ug/g	0.003	0.004	0.0065	0.005
Molybdenum	Total (dry weight)	ug/g	1.1	2.5	4.9	0.2
Nickel	Total (dry weight)	ug/g	1.1	3.0	3.0	0.5
Phosphorus	Total (dry weight)	ug/g	1490	2020	1170	2
Potassium	Total (dry weight)	ug/g	7070	8020	5920	4
Selenium	Total (dry weight)	ug/g	<0.5	<0.5	<0.5	1
Silicon	Total (dry weight)	ug/g	2630	2780	2790	0.3
Silver	Total (dry weight)	ug/g	<0.4	<0.4	0.50	0.7
Sodium	Total (dry weight)	ug/g	<5	5	<5	0.2
Strontium	Total (dry weight)	ug/g	12.2	8.68	12.4	0.01
Tin	Total (dry weight)	ug/g	1.2	1.2	1.5	1
Titanium	Total (dry weight)	ug/g	0.5	0.68	0.93	0.2
Vanadium	Total (dry weight)	ug/g	<0.2	<0.2	<0.2	0.4
Zinc	Total (dry weight)	ug/g	40.3	30.1	97.6	0.1
Zirconium	Total (dry weight)	ug/g	<0.1	<0.1	<0.1	0.2



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NWL Lot ID: **403265**
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Analyte	Units	NWL Number	403265-31	403265-32	403265-33	Detection Limit
		Sample Date	Aug 17, 2005	Aug 17, 2005	Aug 17, 2005	
		Sample Description	C-3, Wheatgrass	C-3, Fescue	C-3, Bluegrass	
		Matrix	Tissue	Tissue	Tissue	
Metals Total						
Aluminum	Total (dry weight)	ug/g	378	127	1720	1
Antimony	Total (dry weight)	ug/g	<1	<1	<1	3
Arsenic	Total (dry weight)	ug/g	<0.3	<0.3	<0.3	0.7
Barium	Total (dry weight)	ug/g	65.0	41.0	62.4	0.4
Beryllium	Total (dry weight)	ug/g	<0.005	<0.005	<0.005	0.01
Bismuth	Total (dry weight)	ug/g	<1	<1	<1	3
Cadmium	Total (dry weight)	ug/g	0.3	0.3	0.3	0.1
Calcium	Total (dry weight)	ug/g	2000	1360	1740	1
Chromium	Total (dry weight)	ug/g	0.1	<0.1	0.71	0.2
Cobalt	Total (dry weight)	ug/g	0.2	0.2	0.53	0.2
Copper	Total (dry weight)	ug/g	10.6	5.90	40.5	0.2
Iron	Total (dry weight)	ug/g	53.5	45.8	103	0.4
Lead	Total (dry weight)	ug/g	0.52	<0.5	1.8	1
Lithium	Total (dry weight)	ug/g	0.4	0.3	0.3	0.3
Magnesium	Total (dry weight)	ug/g	759	751	838	2
Manganese	Total (dry weight)	ug/g	151	272	227	0.1
Mercury	Total (dry weight)	ug/g	0.0070	0.0075	0.0080	0.005
Molybdenum	Total (dry weight)	ug/g	0.69	6.94	6.14	0.2
Nickel	Total (dry weight)	ug/g	1.7	3.7	5.54	0.5
Phosphorus	Total (dry weight)	ug/g	1540	1410	1380	2
Potassium	Total (dry weight)	ug/g	7320	6190	5260	4
Selenium	Total (dry weight)	ug/g	<0.5	<0.5	<0.5	1
Silicon	Total (dry weight)	ug/g	3080	2930	2580	0.3
Silver	Total (dry weight)	ug/g	<0.4	<0.4	0.5	0.7
Sodium	Total (dry weight)	ug/g	<5	<5	<5	0.2
Strontium	Total (dry weight)	ug/g	15.3	9.36	12.1	0.01
Tin	Total (dry weight)	ug/g	1.3	1.2	1.5	1
Titanium	Total (dry weight)	ug/g	0.4	0.63	1.1	0.2
Vanadium	Total (dry weight)	ug/g	<0.2	<0.2	<0.2	0.4
Zinc	Total (dry weight)	ug/g	39.6	18.0	84.9	0.1
Zirconium	Total (dry weight)	ug/g	<0.1	<0.1	0.1	0.2



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Page: 12 of 13

Approved by: *William Warning*
Bill Warning, B.Sc.
Lab Operations Manager



Methodology and Notes

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Method of Analysis:

MethodName	Reference	Method	Date Analysis Started	Location
Metals (Total) in vegetation (Surrey)	US EPA	* Determination of Hg in Sediment by Cold Vapor Atomic Absorption Spec, 245.5	26-Aug-05	Norwest Labs Surrey
Metals (Total) in vegetation (Surrey)	US EPA	Metals & Trace Elements by ICP-AES, 6010B	26-Aug-05	Norwest Labs Surrey

* Norwest method(s) is based on reference method

References:

US EPA US Environmental Protection Agency Test Methods

Comments:

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Results relate only to samples as submitted

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NORWEST LABS

INFORMATION SHEET SOILS - WASTE - OTHER

CONTROL NUMBER
SO 35007

RESULTS & INVOICE TO: <i>Laberge Environmental Services</i>		COPY OF RESULTS TO:		WORK ORDER NO.
COMPANY:	<i>Services</i>	COMPANY:	<i>LOT-403359</i>	DATE STAMP
ADDRESS:	<i>P.O. Box 21072</i>	ADDRESS:		
CITY/TOWN:	<i>Whitehorse</i>	CITY/TOWN:		
PROVINCE:	<i>YT</i>	PROVINCE:		
POSTAL CODE:	<i>Y1A 6P7</i>	POSTAL CODE:		
ATTENTION:	<i>Bonnie Burns</i>	ATTENTION:		
PHONE:	<i>867-668-6838</i>	PHONE:		
FAX:		FAX:		
CELL:	<i>laberge@internorth.com</i>	CELL:		

PURCHASE ORDER NO.:	PROJECT REF.:	REF./QUOTE NO.:
	<i>BREWERY CREEK</i>	

DATE SAMPLED *16/08/05* NUMBER OF SAMPLES *SOIL 09* SOLID WASTE PLANT OTHER (SPECIFY) _____

SPECIAL INSTRUCTIONS (SEE OVER FOR IMPORTANT SAMPLE INFORMATION, INSTRUCTIONS AND ANALYSIS CODES)

RUSH DATE REQUIRED D M % SURCHARGE WILL APPLY ON RUSHES QA REPORT

CLIENT NO. _____

COMPLETION DATE: _____

SAMPLE CUSTODY	SAMPLED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
	COMPANY	COMPANY	COMPANY	COMPANY
	DATE	DATE	DATE	DATE

SITE I.D.	SAMPLE DESCRIPTION	DEPTH (CM)	ANALYSIS PACKAGE CODES (USE CODES LISTED ON THE REVERSE OF THIS SHEET)	LAB CODING
1	BZ-1			
2	BZ-2			
3	BZ-3			
4	LP-1		- moisture content - ICP metal scan	
5	LP-2			
6	LP-3			
7	C-1			
8	C-2			
9	C-3			
10				
11				
12				
13				
14				
15				

EDMONTON PH. (403) 438-5522 FAX (403) 438-0396
 CALGARY PH. (403) 291-2022 FAX (403) 291-2021
 LANGLEY PH. (604) 530-4344 FAX (604) 534-9996
 LETHBRIDGE PH. (403) 329-9266 FAX (403) 327-8527
 WINNIPEG PH. (204) 982-8630 FAX (204) 275-6019

NOTE: Please complete this form in its entirety to ensure correct testing and reporting requirements.
 ACCREDITED BY THE STANDARDS COUNCIL OF CANADA FOR SPECIFIC TESTS.



Report Transmission Cover Page

Norwest Labs
#104, 19575-55 A Ave.
Surrey, BC. V3S 8P8
Phone: (604) 514-3322
Fax: (604) 514-3323

Bill to: Laberge Environmental Services
Report to: Laberge Environmental Services
Box 21072
1-405 Ogilvie Street
Whitehorse, YT, Canada
Y1A 6P7
Attn: Bonnie Burns
Sampled By:
Company:

Project ID:
Name: Brewery Creek
Location:
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 403359
Control Number: SO 35007
Date Received: Aug 22, 2005
Date Reported: Aug 26, 2005
Report Number: 737491

Contact	Company	Address									
Bonnie Burns Web Email Notification	Laberge Environmental Services	Box 21072, 1-405 Ogilvie Street Whitehorse, YT Y1A 6P7 Phone: (867) 668-6838 Email: laberge@internorth.com									
<table border="1"> <thead> <tr> <th>Copies</th> <th>Delivery Strategy</th> <th>Format</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Post</td> <td></td> </tr> <tr> <td>1</td> <td>Email - Single Report</td> <td>PDF</td> </tr> </tbody> </table>		Copies	Delivery Strategy	Format	1	Post		1	Email - Single Report	PDF	Fax: (867) 667-6956
Copies	Delivery Strategy	Format									
1	Post										
1	Email - Single Report	PDF									

Ken Nordin Web x Email Notification x	Laberge Environmental Services	Box 21072, 1-405 Ogilvie Street Whitehorse, YT Y1A 6P7 Phone: (867) 668-6838 Email: laberge@internorth.com			
<table border="1"> <thead> <tr> <th>Copies</th> <th>Delivery Strategy</th> <th>Format</th> </tr> </thead> </table>		Copies	Delivery Strategy	Format	Fax: (867) 667-6956
Copies	Delivery Strategy	Format			

NOTE: **P** indicates a preliminary report is required
NOTE: **A** indicates report is delivered using automated delivery

_____ # OF PAGES IN THIS TRANSMISSION

Report Transmission Notes

Agreement Notes

Lot Notes

Sample Notes:

Notes to Clients
Lot Notes:
Sample Notes:
Batch Notes:
Method Notes:
Method Result Notes:

Reports associated with this Lot

Id/Format/Reported Date
737491 Env2 3 Smp & DL

Id/Format/Reported Date

Id/Format/Reported Date

Comment:

See Methodology and Notes page of Analytical Report for all comments pertaining to this report.

If this report transmission is not satisfactory, please send report requirements to the address at the top of this page.

8/26/05 737491 26-Aug-2005



Sample Custody

Norwest Labs
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Surrey, BC. V3S 8P8
Phone: (604) 514-3322
Fax: (604) 514-3323

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Report to: Laberge Environmental Services
Box 21072
1-405 Ogilvie Street
Whitehorse, YT, Canada
Y1A 6P7
Attn: Bonnie Burns
Sampled By:
Company:

Project
ID:
Name: Brewery Creek
Location:
LSD:
P.O.:
Acct. Code:

NWL Lot ID: **403359**
Control Number: SO 35007
Date Received: Aug 22, 2005
Date Reported: Aug 26, 2005
Report Number: 737491

Sample Disposal Date: Sep 25, 2005

All samples will be stored until this date unless other instructions are received. Please indicate other requirements below and return this form to the address or fax number on the upper right of this page.

_____ Extend Sample Storage Until _____ (MM/DD/YY)

The following charges apply to extended sample storage:

Storage for 1 to 5 samples per month	\$ 10.00
Storage for 6 to 20 samples per month	\$ 15.00
Storage for 21 to 50 samples per month	\$ 30.00
Storage for 51 to 200 samples per month	\$ 60.00
Storage for more than 200 samples per month	\$ 110.00

_____ Return Sample, collect, to the address below via:

_____ Greyhound
_____ Loomis
_____ Purolator
_____ Other (Specify) _____

Name: _____
Company: _____
Address: _____

Phone: _____
Fax: _____
Signature: _____

If no other arrangements have been made, samples will be disposed of on Sep 25, 2005.



Analytical Report

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Report to: Laberge Environmental Services
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 Whitehorse, YT, Canada
 Y1A 6P7
 Attn: Bonnie Burns
 Sampled By:
 Company:

Project ID:
Name: Brewery Creek
Location:
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 403359
Control Number: SO 35007
Date Received: Aug 22, 2005
Date Reported: Aug 26, 2005
Report Number: 737491

Analyte	Units	NWL Number	403359-1	403359-2	403359-3	Detection Limit
		Sample Description	BZ-1	BZ-2	BZ-3	
		Matrix	Soil - general	Soil - general	Soil - general	
Metals Strong Acid Digestion						
Aluminum	Strong Acid Extractable	ug/g	9190	9040	11400	1
Antimony	Strong Acid Extractable	ug/g	109	187	102	1
Arsenic	Strong Acid Extractable	ug/g	328	547	255	0.5
Barium	Strong Acid Extractable	ug/g	594	754	570	0.05
Beryllium	Strong Acid Extractable	ug/g	0.799	1.12	0.923	0.01
Bismuth	Strong Acid Extractable	ug/g	<1	<1	<1	2
Cadmium	Strong Acid Extractable	ug/g	1.7	3.1	1.5	0.05
Calcium	Strong Acid Extractable	ug/g	1250	1600	1420	0.5
Chromium	Strong Acid Extractable	ug/g	20.4	19.7	25.6	0.1
Cobalt	Strong Acid Extractable	ug/g	6.93	11.7	8.80	0.1
Copper	Strong Acid Extractable	ug/g	29.0	44.0	35.7	0.1
Iron	Strong Acid Extractable	ug/g	20200	28600	25000	0.2
Lead	Strong Acid Extractable	ug/g	16.2	23.2	17.1	0.5
Lithium	Strong Acid Extractable	ug/g	6.28	5.69	8.04	0.5
Magnesium	Strong Acid Extractable	ug/g	1890	1610	2520	2
Manganese	Strong Acid Extractable	ug/g	260	371	308	0.05
Mercury	Strong Acid Extractable	ug/g	1.12	1.84	1.19	0.003
Molybdenum	Strong Acid Extractable	ug/g	2.7	3.7	2.5	0.2
Nickel	Strong Acid Extractable	ug/g	23.2	39.3	28.1	0.3
Phosphorus	Strong Acid Extractable	ug/g	466	604	615	1
Potassium	Strong Acid Extractable	ug/g	779	1190	714	3
Selenium	Strong Acid Extractable	ug/g	<0.50	<0.50	<0.50	0.5
Silicon	Strong Acid Extractable	ug/g	316	70.7	293	0.5
Silver	Strong Acid Extractable	ug/g	<0.29	<0.29	<0.29	0.3
Sodium	Strong Acid Extractable	ug/g	42.2	36.4	53.8	0.5
Strontium	Strong Acid Extractable	ug/g	42.6	54.7	41.6	0.03
Thallium	Strong Acid Extractable	ug/g	<0.5	0.56	<0.5	0.5
Tin	Strong Acid Extractable	ug/g	0.61	0.89	0.83	0.5
Titanium	Strong Acid Extractable	ug/g	93.4	36.7	97.7	0.05
Vanadium	Strong Acid Extractable	ug/g	62.2	63.4	72.8	0.2
Zinc	Strong Acid Extractable	ug/g	88.4	170	100	0.03
Zirconium	Strong Acid Extractable	ug/g	3.9	6.91	6.36	0.05
Physical and Aggregate Properties						
Moisture	Wet Weight	%	6.2	4.4	4.5	0.1
Soil Acidity						
pH	1:2 Soil:Water	pH	5.1	5.6	5.1	0.5



Analytical Report

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 Whitehorse, YT, Canada
 Y1A 6P7
 Attn: Bonnie Burns
 Sampled By:
 Company:

Project ID:
Name: Brewery Creek
Location:
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 403359
Control Number: SO 35007
Date Received: Aug 22, 2005
Date Reported: Aug 26, 2005
Report Number: 737491

Analyte	Units	NWL Number	403359-4	403359-5	403359-6	Detection Limit
		Sample Description	LP-1	LP-2	LP-3	
		Matrix	Soil - general	Soil - general	Soil - general	
Metals Strong Acid Digestion						
Aluminum	Strong Acid Extractable	ug/g	12400	11400	14600	1
Antimony	Strong Acid Extractable	ug/g	167	213	59.9	1
Arsenic	Strong Acid Extractable	ug/g	78.6	797	40.6	0.5
Barium	Strong Acid Extractable	ug/g	796	831	804	0.05
Beryllium	Strong Acid Extractable	ug/g	0.862	1.08	0.802	0.01
Bismuth	Strong Acid Extractable	ug/g	<1	<1	<1	2
Cadmium	Strong Acid Extractable	ug/g	1.6	4.2	0.90	0.05
Calcium	Strong Acid Extractable	ug/g	1770	2670	1880	0.5
Chromium	Strong Acid Extractable	ug/g	26.7	24.9	27.6	0.1
Cobalt	Strong Acid Extractable	ug/g	8.88	11.5	9.62	0.1
Copper	Strong Acid Extractable	ug/g	38.6	39.4	30.0	0.1
Iron	Strong Acid Extractable	ug/g	25500	28200	25600	0.2
Lead	Strong Acid Extractable	ug/g	19.2	29.6	17.2	0.5
Lithium	Strong Acid Extractable	ug/g	9.41	8.66	11.6	0.5
Magnesium	Strong Acid Extractable	ug/g	2770	2210	3300	2
Manganese	Strong Acid Extractable	ug/g	314	384	308	0.05
Mercury	Strong Acid Extractable	ug/g	0.560	1.78	0.257	0.003
Molybdenum	Strong Acid Extractable	ug/g	2.4	2.8	1.5	0.2
Nickel	Strong Acid Extractable	ug/g	31.3	40.1	28.4	0.3
Phosphorus	Strong Acid Extractable	ug/g	765	695	540	1
Potassium	Strong Acid Extractable	ug/g	723	1260	841	3
Selenium	Strong Acid Extractable	ug/g	<0.50	<0.50	<0.50	0.5
Silicon	Strong Acid Extractable	ug/g	247	118	155	0.5
Silver	Strong Acid Extractable	ug/g	<0.29	<0.29	<0.29	0.3
Sodium	Strong Acid Extractable	ug/g	74.9	295	70.0	0.5
Strontium	Strong Acid Extractable	ug/g	65.2	74.7	42.3	0.03
Thallium	Strong Acid Extractable	ug/g	<0.5	0.64	<0.5	0.5
Tin	Strong Acid Extractable	ug/g	0.76	0.98	0.73	0.5
Titanium	Strong Acid Extractable	ug/g	113	49.9	151	0.05
Vanadium	Strong Acid Extractable	ug/g	70.7	64.7	58.1	0.2
Zinc	Strong Acid Extractable	ug/g	142	164	108	0.03
Zirconium	Strong Acid Extractable	ug/g	4.0	5.53	5.56	0.05
Physical and Aggregate Properties						
Moisture	Wet Weight	%	5.0	5.7	6.0	0.1
Soil Acidity						
pH	1:2 Soil:Water	pH	5.2	6.4	5.2	0.5



Analytical Report

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 Attn: Bonnie Burns
 Sampled By:
 Company:

Project
 ID:
 Name: Brewery Creek
 Location:
 LSD:
 P.O.:
 Acct. Code:

NWL Lot ID: **403359**
 Control Number: SO 35007
 Date Received: Aug 22, 2005
 Date Reported: Aug 26, 2005
 Report Number: 737491

Analyte	Units	NWL Number	403359-7	403359-8	403359-9	Detection Limit
		Sample Description	C-1	C-2	C-3	
		Matrix	Soil - general	Soil - general	Soil - general	
Metals Strong Acid Digestion						
Aluminum	Strong Acid Extractable	ug/g	13500	13400	12900	1
Antimony	Strong Acid Extractable	ug/g	63.4	32	19	1
Arsenic	Strong Acid Extractable	ug/g	124	90.3	71.5	0.5
Barium	Strong Acid Extractable	ug/g	653	503	509	0.05
Beryllium	Strong Acid Extractable	ug/g	0.971	0.795	0.916	0.01
Bismuth	Strong Acid Extractable	ug/g	<1	<1	<1	2
Cadmium	Strong Acid Extractable	ug/g	1.8	1.6	1.5	0.05
Calcium	Strong Acid Extractable	ug/g	2360	2110	2000	0.5
Chromium	Strong Acid Extractable	ug/g	25.0	22.6	27.0	0.1
Cobalt	Strong Acid Extractable	ug/g	7.91	7.60	7.74	0.1
Copper	Strong Acid Extractable	ug/g	25.5	21.5	30.6	0.1
Iron	Strong Acid Extractable	ug/g	24200	22700	23200	0.2
Lead	Strong Acid Extractable	ug/g	19.0	15.6	14.5	0.5
Lithium	Strong Acid Extractable	ug/g	9.64	9.56	9.20	0.5
Magnesium	Strong Acid Extractable	ug/g	2580	2590	2860	2
Manganese	Strong Acid Extractable	ug/g	376	296	288	0.05
Mercury	Strong Acid Extractable	ug/g	0.594	0.494	1.18	0.003
Molybdenum	Strong Acid Extractable	ug/g	2.6	2.0	3.2	0.2
Nickel	Strong Acid Extractable	ug/g	29.7	24.0	28.2	0.3
Phosphorus	Strong Acid Extractable	ug/g	697	653	683	1
Potassium	Strong Acid Extractable	ug/g	680	612	496	3
Selenium	Strong Acid Extractable	ug/g	<0.50	<0.50	<0.50	0.5
Silicon	Strong Acid Extractable	ug/g	115	129	145	0.5
Silver	Strong Acid Extractable	ug/g	<0.29	<0.29	<0.3	0.3
Sodium	Strong Acid Extractable	ug/g	47.0	50.4	60.6	0.5
Strontium	Strong Acid Extractable	ug/g	43.3	29.3	34.5	0.03
Thallium	Strong Acid Extractable	ug/g	<0.5	<0.5	<0.5	0.5
Tin	Strong Acid Extractable	ug/g	0.69	0.70	0.59	0.5
Titanium	Strong Acid Extractable	ug/g	124	117	209	0.05
Vanadium	Strong Acid Extractable	ug/g	77.9	61.2	90.9	0.2
Zinc	Strong Acid Extractable	ug/g	141	107	122	0.03
Zirconium	Strong Acid Extractable	ug/g	2.5	2.3	5.07	0.05
Physical and Aggregate Properties						
Moisture	Wet Weight	%	14.6	10.7	12.5	0.1
Soil Acidity						
pH	1:2 Soil:Water	pH	4.6	4.8	4.5	0.5



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Page: 4 of 5

Approved by:

Bill Warning, B.Sc.
Lab Operations Manager



Methodology and Notes

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Page: 5 of 5

Method of Analysis:

MethodName	Reference	Method	Date Analysis Started	Location
Metals (Strong Acid Leachable) in soils	B.C. Ministry of WLAP	* Strong Acid Leachable Metals (SALM) in Soil, V 1.0, SALM	24-Aug-05	Norwest Labs Surrey
Moisture	Carter	* Gravimetric Method with Oven Drying, 51.2	25-Aug-05	Norwest Labs Surrey
pH and EC in Soil - 1:2 (Surrey)	McKeague	* 1:2 Soil:Water Ratio, 4.12	23-Aug-05	Norwest Labs Surrey

* Norwest method(s) is based on reference method

References:

B.C. Ministry of WLAP	B.C. Ministry of Water, Land and Air Protection
Carter	Soil Sampling and Methods of Analysis
McKeague	Manual on Soil Sampling and Methods of Analysis

Comments:

Please direct any inquiries regarding this report to our Client Services group.
Results relate only to samples as submitted

The test report shall not be reproduced except in full, without the written approval of the laboratory

Care and Maintenance

What date will ERDC like to commence care and maintenance activities?

Is ERDC ready to sign off C&M agreement, as we have to forward into system for Ministerial approval?

Who will be conducting the daily maintenance and sampling?

If not the current crew, is an overlap transition period contemplated?

Who will be the onsite manager? What are the internal reporting mechanisms?

Who will be doing the analytical work for daily, monthly, receiving water sampling?

Who will handle the reporting of daily maintenance and sampling results?

Has Ewing provided a list of equipment currently being used that belongs to Ewing? (We asked for and were told this list was going to be compiled over a year ago)

Need for development of a safety/emergency response plan for dealing with potential environmental emergencies.

Special Projects

We have preliminary funding approval for the following activities:

Wire cleanup \$200,000

Historic mine / Heritage sites survey \$50,000

Baseline Environmental (including fish survey) \$90,000

Water treatment plant improvements (primary Galkeno 300/900, includes:
improvements, flows, lime density, pH control, additional settling ponds, sludge management)

Closure Plan Development \$190,000

Physical Hazard Reduction \$400,000

We need to discuss who will be tendering and managing these contracts, whether it's ERDC, GY or a combination.

Need discussion on Baseline Environmental comments you should have received last week.

Nacho Nyak Dun

Need to discuss role of NND and NND Development Corp. in your plans, reporting mechanisms etc. Previous Chief and Council wanted everything to go through the Development Corp. Any idea on if a new relationship is developing. Role of your NND liaison person.

Remainder of 2005-6 Fiscal Year

Have some funds remaining to be spent before end of March. Should have brief discussion on this.

Appendix J
Bio-Assay Toxicity
Results



Integrated Resource Consultants Inc.

Suite 160, 14480 River Road
Richmond, BC, Canada V6V 1L4
Tel. 604-278-7714 • Fax 604-278-7741
www.ircintegratedresource.com
FILE:ALEXCO/0505056.RTT

DATE: 16 May 2005
TO: Mr. Brad Thrall
Alexco Resources
Brewery Creek Mine
P.O. Bag 5040
Dawson City, Yukon
Y0B 1G0

REPORT ON: RAINBOW TROUT BIOASSAY RESULTS

SAMPLE DESCRIPTION:

IRC Sample ID No.:	0505056
Sample Name:	BC-28
Date collected:	Not stated
Date, time received:	6 May 2005; 1415 hrs.
Collection Method:	Grab
Amount, Container:	1 x 22Litres plastic container
Physical description:	Opaque yellow liquid
Date, time tested:	6 May 2005; 1635 hrs.

RAINBOW TROUT 96 HR RESULTS:

The 96 hour (static) LT₅₀ was greater than 96 hours.
10% trout mortality in 100% concentration

The LT₅₀ is defined as the median lethal time or the time at which there is 50% fish mortality. Results are calculated using the method described by Stephan (Methods for calculating an LC₅₀ in: Aquatic Toxicology and Hazard Evaluation, American Society for Testing and Materials, 1977).

The method used for this test was as per the IRC laboratory "Standard Operating Procedure for Rainbow Trout Holding and Testing" RTver5. This procedure follows the "Biological Test Method: Reference Method for Determining Acute Lethality of Effluents to Rainbow Trout" EPS 1/RM/13, Second Edition – December 2000. Test volume was 15 litres with 10 fish in each test vessel. Aeration was by forced air through glass pipettes at a rate of approximately 6.5 ± 1 ml/L/min. The sample was not pH adjusted or filtered prior to testing.

The initial dissolved oxygen level was 11.0 mg/L at 13.0°C, the conductivity was 1149 µS/cm and the initial pH was 7.7. After pre-aerating the sample for 120 minutes and warming to 14.0°C, the dissolved oxygen level was 10.5 mg/L. Although the dissolved oxygen level was greater than 100% saturation the maximum pre-aeration time had been reached so the test was initiated at this time. The test set up technician was AH.

Please call should you have any questions.

IRC Integrated Resource Consultants Inc.

Marian Zazzi
Laboratory Supervisor
b080.1
enclosure

RAW DATA:

<u>TEST CONCENTRATION</u>		<u>HOURS</u>					
		0		24	48	72	96
100%	Percent Survival	100%		100%	100%	90%	90%
	Dissolved Oxygen (mg/L)	10.5		9.4	9.0	9.1	9.2
	Temperature (°C)	14.0		15.0	15.0	15.0	15.0
	PH	7.8		7.6	7.6	7.6	7.6
	Conductivity (µS/cm)	1149					1162
	Symptoms	1		1,2	1,2,3	1,2	1,2
	Loading Density (g/L)	0.43		0.43	0.43	0.39	0.39
CONTROL	Percent Survival	100%		100%	100%	100%	100%
	Dissolved Oxygen (mg/L)	10.0		9.5	9.3	9.4	9.5
	Temperature (°C)	15.5		15.0	15.0	15.0	15.0
	pH	7.6		7.4	7.5	7.5	7.5
	Conductivity (µS/cm)	58					64
	Symptoms	1		1	1	1	1
	Loading Density (g/L)	0.43		0.43	0.43	0.43	0.43
Technician		AH		AC	AC	AH	AH

KEY TO SYMPTOMS:

- 1 = no apparent effect
- 2 = fish showing signs of stress
- 3 = loss of equilibrium

TEST FISH STOCK INFORMATION

Date received:	13 April 2005	
Source:	Sun Valley Trout Farm	
Species:	<i>Oncorhynchus mykiss</i> (Rainbow Trout)	
Fork Length:	Mean:	4.15cm \pm 0.31cm
	Range:	3.70cm – 4.50cm
Wet weight:	Mean:	0.65 g \pm 0.15 g
	Range:	0.43 g – 0.84g
Condition Factor (100xWt/length ³ cm):	0.91	

Acclimation History

Acclimation temperature:	14.0 – 14.5 ° CELSIUS
Treatments:	None
Water:	Dechlorinated tap water
Feeding:	Moore Clark Fry Feed
Mortality:	< 2%

RAINBOW TROUT REFERENCE TOXICANT DATA

Stock Arrival Date (y/m/d)	Test Date (y/m/d)	Toxicant	Log LC ₅₀ (mg/L)
04.11.24	04.12.07	Phenol	1.12
04.11.29	04.12.08	“	1.10
04.11.29	04.12.29	“	1.12
04.12.09	05.01.04	“	1.01
04.12.09	05.01.19	“	1.04
05.01.05	05.02.08	“	1.05
05.01.25	05.02.28	“	1.04
05.02.23	05.03.09	“	1.12
05.02.23	05.03.29	“	1.08
05.03.16	05.04.08	“	1.04
05.04.06	05.04.16	“	1.03
05.04.06	05.05.04	“	1.03
05.04.13	05.05.04	“	1.04
LAB GEOMETRIC MEAN (LOG) \pm 2 standard deviations:			1.05 mg/L \pm 0.09
Warning Limits (Log Values):		0.96 mg/L to 1.14 mg/L	

CONTROL/DILUTION WATER QUALITY:

Hardness: 18mg/L
 Total Residual Chlorine: 0 mg/L

Golder Associates Ltd.

195 Pemberton Avenue
North Vancouver, British Columbia, Canada V7P 2R4
Telephone 604-986-4331
Fax 604-662-8548

E/05/0288
05-1424-010

July 19, 2005

Alexco Resource Corp.
BAG 5040
Dawson City, YK Y0B 1G0

Attention: Jeff Stephenson

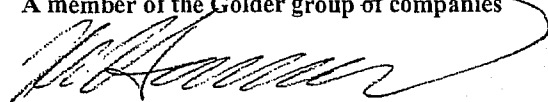
**RE: TOXICITY TESTING ON THE SAMPLE IDENTIFIED AS PREG POND
(COLLECTED ON JUNE 14, 2005) WORK ORDER 0500244**

Dear Mr. Stephenson:

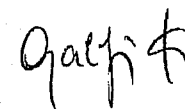
We have conducted one 96-h LC50 toxicity test using rainbow trout on the above sample, received at EVS/Golder on June 15, 2005. The test was performed according to the Environment Canada protocol for conducting acute toxicity tests using rainbow trout (EPS 1/RM/13, Second Edition, 2000) with exception to loading density which exceeded the recommended 0.50 g/L by 0.03g/L. This deviation was due to insufficient sample volume. The results of this test are based on the appended data and are presented in Table 1 on the following page.

If you wish to schedule additional testing or have any questions regarding the data presented in this report, please do not hesitate to contact me by e-mail (rharrison@golder.com) or telephone.

Yours very truly,
EVS ENVIRONMENT CONSULTANTS
A member of the Golder group of companies


Robert Harrison, B.Sc.Hons.
Laboratory Biologist

Verified By:


QA/QC Committee:
Cathy McPherson, B.Sc.
Julianna Kalocai, M.Sc.
John Wilcockson, M.Sc.

Attachment: Table 1

RH/ljk

O:\Data\Final\2005\1424\05-1424-010\LET 0719 2005 Tox Test WO 0500244.doc

TABLE 1
96-H TOXICITY TEST RESULTS

Sample Identification	Sample Collection Date (Time)	96-h LC50 (95% Confidence Limits) [%vol/vol]
Preg Pond	June 14, 2005 (1325h)	>100

EVS ENVIRONMENT CONSULTANTS
RAINBOW TROUT ACUTE TOXICITY TEST DATA SUMMARY

Client Alexco Resource
EVS Project No. 65-1424-010
EVS Work Order No. 0500244

EVS Analysts RGT, MJG
Test Type 96-h LC50
Test Initiation Date June 16/05 @ 1645

SAMPLE

Identification Preg Pond
Amount Received 1420L
Date Collected June 14/05
Date Received June 15/05
Other _____

DILUTION/CONTROL WATER (initial water quality)

Fresh Water (dechlorinated)
Temperature (°C) 15
pH 7.2
Dissolved Oxygen (mg/L) 10.1
Conductivity (µS/cm) 28
Hardness (mg/L as CaCO₃) 8
Alkalinity (mg/L as CaCO₃) 6
Other _____

TEST SPECIES INFORMATION

Source Sun Valley
Collection Date/Batch 050905
Control Fish Size (mean, SD and range measured at end of test)
Date Measured June 20/05
Fork Length (mm) 37±2 (34-41)
Wet Weight (g) 0.53±0.16 (0.43-0.75)
Reference Toxicant SDS
Current Reference Toxicant Result

Reference Toxicant Test Date June 3/05
Duration of Acclimation (days) 25
96-h LC50 (and 95% CL) 42 (32 and 56)
Reference Toxicant Warning Limits (mean ± 2SD) and CV
29±12 mg/L SDS CV: 21%

↓
37 (28 and 49)

TEST CONDITIONS

Dissolved Oxygen Range (mg/L) 8.8-10.1
Temperature Range (°C) 15
pH Range 7.1-10.0
Conductivity Range (µS/cm) 28-859
Aeration Provided? (give rate) 6.5±1 ml/min/L
Photoperiod (L:D h) 16:8
No. Organisms/Volume 10/10L
Loading Density (g/L) 0.53
Acclimation Before Testing (days) 38
Mortality In Previous Week of Acclimation (%) 0.1
Other _____

TEST RESULTS

The 96-h LC50 is estimated to be > 100% (w/v)

Data Verified By Galif Date Verified July 18/05

**EVS ENVIRONMENT CONSULTANTS
RAINBOW TROUT ACUTE TOXICITY TEST DATA**

WHOLE SAMPLE WATER QUALITY

Client Alexco Resource
 EVS Project No. 05-1924-010
 EVS Work Order No. 0500244
 Trout Batch No. and 7-d Acclimation Mortality 050905/0.1%
 No. Fish/Volume 10/10L
 Sample ID Preg Pond Brewery Creek Pk
 Date/Time Collected June 14/05 @ 15:25
 Test Initiation Date/Time June 16/05 @ 16:45

	Initial	pH Adjustment ¹	After 30-min Pre-aeration
Temp. (°C)	15	/	15
pH	10.2	/	10.0
DO (mg/L)	8.6	/	7.1
Cond. (µS/cm)	858	/	858

Total Pre-Aeration Time 30 min

1. Document pH adjustment procedure (if used) under "Comments".

Concentration % (0/10)	Number of Survivors (1 to 96 hours)							Dissolved Oxygen (mg/L)					Temperature (°C)					pH					Conductivity (µS/cm)	
	1	2	4	24	48	72	96	0	24	48	72	96	0	24	48	72	96	0	24	48	72	96	0	96
control				10	10	10	10	10.1	9.3	9.4	9.4	9.0	15	15	15	15	15	7.2	7.1	7.1	7.1	7.1	28	40
6.25				10	10	10	10	10.1	8.9	8.8	8.9	9.5	15	15	15	15	15	7.4	7.3	7.2	7.3	7.2	95	102
12.5				10	10	10	10	10.1	8.9	8.8	9.0	9.1	15	15	15	15	15	7.6	7.2	7.2	7.3	7.1	119	125
25				10	10	10	10	9.9	9.1	9.0	9.0	9.0	15	15	15	15	15	8.9	7.1	7.2	7.1	7.1	238	241
50				10	10	10	10	9.7	9.3	9.1	9.1	9.8	15	15	15	15	15	9.6	7.1	7.5	7.5	7.2	452	453
100				10	10	10	10	9.1	9.4	9.3	9.2	9.7	15	15	15	15	15	10.0	7.6	7.5	7.5	7.5	858	859
Technician Initials				RAH	TR	TR	RAH	RAH	RAH	TR	TR	RAH	RAH	TR	TR	RAH	RAH	RAH	TR	TR	RAH	RAH	RAH	

WQ Instruments Used: Temperature calibrated to thermometer pH II-A-51 DO II-A-3 Conductivity II-A-030303
 Sample Description cloudy, green/brown
 Comments pH adjusted, sample was not set up due to insufficient volume

Test Set Up By RAH Data Verified By RAH Date Verified July 18/05

Laberge

ENVIRONMENTAL SERVICES
P.O. Box 21072
Whitehorse, Y.T.
Y1A 6P7

Office Phone: 867-668-6838
Cell Phone: 867-668-1043
Fax: 867-667-6956

BIOLOGICAL MONITORING PROGRAM

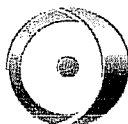
AT

BREWERY CREEK, Y.T.

2005

Submitted to:

ALEXCO RESOURCE CORPORATION



ALEXCO

Prepared by:

B. E. Burns

Laberge
ENVIRONMENTAL SERVICES

January 2006

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1.0 INTRODUCTION

The Brewery Creek Mine, owned and operated by Alexco Resource Corporation (Alexco), is located in central Yukon approximately 55 kilometres east of Dawson City. The mine operates under class 'A' Water Use License QZ96-007, originally issued as QZ94-003 in August 1995, and under Yukon Quartz Mining License A99-001 issued in 1999. The oxide reserves have been open pit mined and were subjected to a heap leach gold recovery operation. Licence number QZ96-007, amendment number seven, deals with decommissioning and monitoring activities to be conducted between April 2005 and December 2021.

Over the past several years, various reclamation and decommissioning activities have taken place. All mined areas and most of the roads have now been recontoured and planted. The ADR gold recovery plant and all buildings with the exception of the warehouse have been removed. The heap leach pad has been detoxified, recontoured and seeded. The heap effluent water was released through a combination of land application and direct release during the summer seasons of 2002 - 2005. Both the land applied and direct release water eventually migrate to downstream receiving waters in Laura Creek.

Laberge Environmental Services (LES) was contracted by Alexco to undertake the benthic monitoring program in 2005, as specified in Part F, Section 41, of the licence. Alexco personnel collected water quality and stream sediment samples concurrently at each of the benthic sites.

This report contains all of the data collected during the monitoring program in 2005, with some comparisons with historic studies.

2.0 STUDY AREA

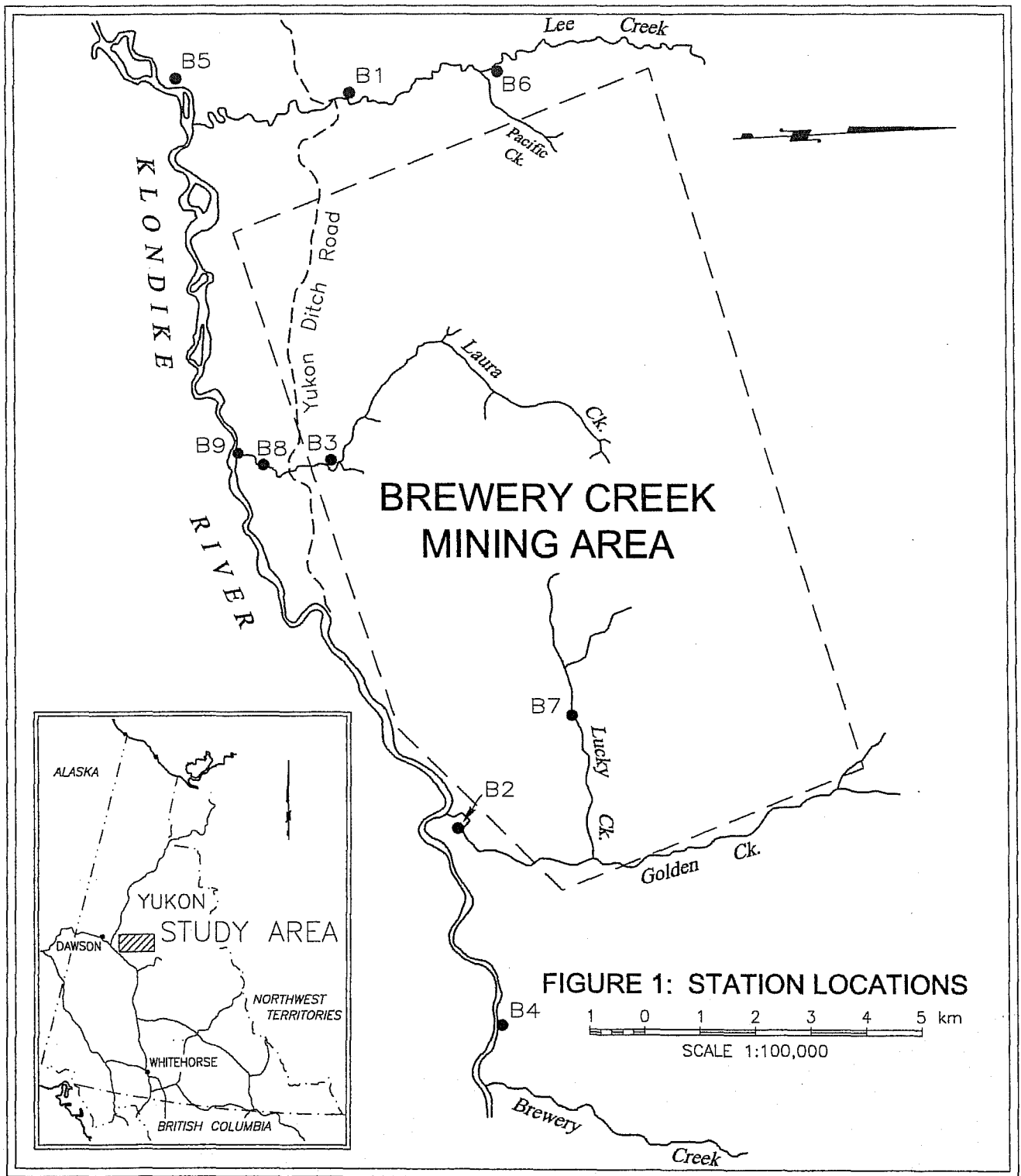
The study area is located approximately 55 kilometres east of Dawson City and north of the South Klondike River, bordered by Lee Creek on the west and Golden Creek on the east.

As specified in the Licence, seven sites, B1 to B7 (Figure 1), were sampled for benthic invertebrates, water quality and stream sediment quality. Additional sampling was undertaken in 2005 to comply with components of various management plans. Specifics within the Lower Laura Creek Impact Study Plan (2004) state that benthic invertebrates are also to be collected from the water quality sites BC39 (Laura Creek u/s of the South Klondike River) and BC53 (Laura Creek in the wetland) during the regular benthos monitoring program. These sites have been named B8 and B9 respectively to follow consistency with the established nomenclature. The location and description of each of these sites is outlined in Table 1. In addition, components of the Heap Leach Pad Monitoring Program, Blue Zone Monitoring and Assessment Program and the Lower Laura Creek Impact Study Plan require the annual collection of stream sediment samples from BC39 (B9) and BC53 (B8).

The seven licensed sites were sampled for benthos in September 1994 (Burns, 1994), August 1995 (Burns, 1995), August 1997 (Burns, 1998), August 1999 (Burns, 1999), August 2001 (Burns, 2002) and September 2003 (Burns, 2004). Similar locations were also sampled by Norecol on behalf of the Company, and by Environment Canada, Environmental Protection, in July 1991. B8 was sampled for the first time in 2003. Some comparisons with the above referenced data have been drawn and are discussed in Section 4.4.

**TABLE 1
SITE DESCRIPTIONS AND LOCATIONS**

SITE #	SITE DESCRIPTION	COORDINATES
B1	Lee Creek at Yukon Ditch Road	N 64°01'55" W 138°23'04"
B2	Golden Creek	N 64°01'51" W 138°04'57"
B3	Laura Creek	N 63°59'54" W 138°14'49"
B4	South Klondike River upstream of Golden Creek	N 64°01'14" W 138°05'29"
B5	South Klondike River downstream of Lee Creek	N 63°58'40" W 138°23'27"
B6	Lee Creek upstream of Pacific Creek	N 64°01'54" W 138°23'18"
B7	Lucky Creek	N 64°04'02" W 138°09'06"
B8	Laura Creek in the wetland	N 63°59'55" W 138°15'54"
B9	Laura Creek near mouth u/s of the South Klondike River	N 63°59'14" W 138°18'43"



3.0 METHODS

Sampling was conducted on August 29th, 2005. With the exception of B1, B3, B8 and B9, all sites were accessed by helicopter.

3.1 WATER QUANTITY

Instantaneous discharge was measured where possible. An area with a uniform cross section was chosen and the velocity and depth were measured using a Swaffer current velocity meter (model 2100). Depending on the stream width, a number of readings were taken across the profile of the stream. Total discharge was calculated as the sum of these individual discharges (area x velocity).

3.2 WATER QUALITY

Water quality samples were collected at each site. The samples were collected in a fast flowing section of the stream, prior to any other sampling activity.

3.2.1 Field Measurements

In-situ measurements were taken at each site. Dissolved oxygen and water temperature were determined with an Accumet AP64 DO meter.

3.2.2 Chemical Analyses

All sample bottles were supplied by the ALS Environmental Laboratory, Vancouver, B.C. At each site, samples were collected in a one litre plastic bottle for the analyses of nutrients, dissolved anions and for physical tests. Samples to be analyzed for total metals were collected in 250 ml plastic bottles and preserved with nitric acid. Samples to be analyzed for total cyanide were collected in one litre plastic bottles which already contained sodium hydroxide as a preservative. Samples were kept cool prior to shipment to the laboratory. The methods used by ALS are based on *Standard Methods for the Examination of Water and Wastewater*, 18th Edition, published by the American Public Health Association. The procedures involve a variety of instrumental analyses including atomic emission mass spectrophotometry (ICP-MS) and atomic absorption spectrophotometry (AA) to obtain the required detection limit for each element.

3.3 STREAM SEDIMENT SAMPLING

Stream sediment samples were collected at all nine stations. Sample sites were selected from an exposed area of the stream bank where possible, generally characterized by the finest grain size evident at the site. Samples were collected with an aluminum scoop, placed in plastic bags and shipped to Activation Laboratories Ltd. in Ancaster, Ontario.

At the lab, the samples were dried, passed through a 100 mesh (0.15 mm) stainless steel sieve, and then run through an ultra trace ICP to determine total metals levels.

A portion of the samples was dried and a "loss on ignition (LEI)" test performed on -100 mesh material at 600°C. A sieve analysis was also performed using 10, 20, 40, 60, 100, 140, and 270 ASTM mesh sizes. The data from these analyses are not included in this report but are available in the annual report.

3.4 BENTHIC INVERTEBRATES

Invertebrates were sampled in triplicate at the nine sites on August 29, 2005. The samples were collected from an undisturbed, fast flowing, gravel strewn riffle habitat (where possible) at each of the sites.

Collections were made with a Surber sampler (area = 0.0929 m²) which had a 300 micron mesh. The bed material within the frame was cleaned and washed by hand, with the fast flowing current carrying the disturbed bottom fauna and detritus into the collection bag. The level of effort for each sample and at each site was comparable. The captured invertebrates and detritus were placed in one litre nalgene bottles, preserved with 10% formalin, and shipped to an entomologist for sorting, identification and enumeration.

Benthic invertebrates were also collected for the first time at B9. The characteristics of the site include a stable well-defined channel flowing through a partially closed canopy of mixed boreal forest. The substrate consisted mainly of loosely compacted fine to medium sized gravels. Photographs of the site are presented in Appendix A.

Analysis of the benthic invertebrate samples was conducted by Charles J. Low, PhD, an invertebrate biologist in Victoria, B.C. All samples were washed through two screens with mesh sizes 1 millimetre and 180 microns. All of the organisms retained by the coarse screen were counted and identified, whereas the organisms on the 180 micron screen were subsampled as necessary. A Folsom plankton splitter was used for the subsampling. The majority of the benthos was identified to the genus level.

4.0 RESULTS AND DISCUSSION

There was very little change in the physical characteristics at the previously monitored sites. The exception to this was B6, Lee Creek u/s of Pacific Creek. A large area surrounding this site had burnt during a wild fire in the summer of 2004. Except for riparian willows and shrubs, the neighboring terrain has been severely burned and scarred, and very little live vegetation was apparent during the sampling period.

4.1 WATER QUANTITY

With the exception B4 and B5, discharge measurements were made at all of the sites (Table 2). The flow in the South Klondike River is too great to measure by wading. Water levels were quite low at all of the sites. It appears that there is a negative flow in Laura Creek and volumes were visibly lower at B9. It has been well documented over the years, that all or part of Laura Creek typically goes to ground between the ditch road and the South Klondike River at various times of the year.

TABLE 2
DISCHARGE MEASUREMENTS, AUGUST 29th 2005

SITE	SITE DESCRIPTION	TIME	FLOW (m ³ /sec)
B1	Lee Cr u/s Ditch Road	18:15	2.74
B2	Golden Creek	10:00	1.09
B3	Laura Creek u/s Yukon Ditch Road	15:30	0.20
B6	Lee Cr u/s of Pacific Creek	13:00	2.40
B7	Lucky Creek	10:45	0.05
B8	Laura Cr d/s Yukon Ditch Road	16:00	0.19
B9	Laura Cr u/s Klondike River	17:15	0.11

4.2 WATER QUALITY

The laboratory analyses of the water samples are presented in Appendix B.

There were nine (9) parameters which fell below the method detection limit in all samples; beryllium, bismuth, boron, mercury, phosphorus, potassium, silver, tin and thallium. The detected parameters had generally low concentrations with the exception of the metal cations which are a measure of water hardness.

Selected parameters are presented in Table 3. These concentrations were compared to the Canadian Council of Ministers of the Environment (CCME) 1999 guidelines, for the protection of freshwater aquatic life. Note that these guidelines have generally been established under laboratory conditions or at southern locations, usually using aquatic species exotic to the Yukon. As such, the levels recommended for aquatic life are simply guidelines, and not standards.

All sampled waters were cool, slightly alkaline and well aerated. Sulphate levels ranged from 49.5 mg/L in the South Klondike River (B4) to 162 mg/L in Lucky Creek (B7).

Ammonia concentrations were very low and met the CCME guideline of 1.54 mg/L.

Alkalinity is a measure of water's ability to neutralize acid. The water bodies sampled in this survey had relatively high values (93 to 153 mg/L as CaCO₃) and the waters were hard to very hard, providing this region with a relatively good buffering capacity against any alterations in pH.

Conductivity, a measure of the total concentrations of ionic constituents in water, was high at all sites, predominately due to the quantity of calcium and magnesium ions.

Water was visually turbid in upper Laura Creek (B3 and B8) with suspended solids readings of over 100 mg/L.

The CCME guideline for lead, mercury and zinc was met at all of the sites. The CCME guideline for arsenic and copper was exceeded at the upper Laura Creek sites (B3 and B8) only.

The CCME guideline for cadmium recommends a concentration of 0.000017 mg/L or the use of the formula $10\{0.86[\log(\text{hardness})]-3.2\}$. As the waters sampled in the study area were hard to very hard, the guideline was calculated per site and ranged from 0.00004 to 0.00009 mg/L. The south Klondike River upstream Golden Creek (B4) was the only site that may have met the calculated guideline. However, the detection limit is slightly greater than the guideline, thus it is not known for sure if the concentration of cadmium at B4 met the guideline. Although most sites slightly exceeded the calculated guidelines, concentrations were low at all sites.

The guideline for iron was exceeded at the Laura Creek sites (B3, B8 and B9) and at Lucky Creek (B7).

With the exception of B4 (South Klondike River upstream Golden Creek), all sites slightly exceeded the guideline for selenium. The highest concentration was documented at B6, Lee Creek upstream of Pacific Creek, a background site for the study area. Exceedances at

TABLE 3

WATER QUALITY AT BREWERY CREEK PROPERTY, AUGUST 29, 2005

Site #	B1	B2	B3	B4	B5	B6	B7	B8	B9	Guideline*
Time	18:15	10:00	15:30	09:15	08:40	13:00	10:45	16:00	17:15	
Water Temperature °C	5.3	1.4	2.6	5.2	5.1	3.9	1.7	3.4	5.6	
Dissolved Oxygen mg/L	12.4	15.5	13.3	11.8	11.9	13.8	14.9	14.0	12.6	
Dissolved Oxygen % saturation	103	115	106	98	98	110	113	111	105	
Conductivity uS/cm (lab)	410	410	351	250	327	415	555	346	339	
Conductivity uS/cm (field)	415	434	366	236	342	429	579	361	345	
pH (lab)	8.21	8.24	7.82	8.02	8.09	8.22	8.14	7.71	8.11	6.5 to 9.0
pH (field)	7.98	8.09	7.89	7.98	7.89	---	7.99	7.96	---	
Discharge cms	2.74	1.09	0.20	---	---	2.40	0.05	0.19	0.11	
Total Alkalinity as CaCO3 mg/L	135	141	117	93.3	106	135	153	114	115	
Sulphate mg/L	95.8	90.1	76.5	49.5	71.3	98.7	162	78.1	74.5	
Ammonia Nitrogen mg/L	0.068	0.057	0.064	0.076	0.030	0.050	0.042	0.053	0.035	1.54**
Nitrate mg/L	0.0907	0.135	0.625	0.0660	0.0749	0.111	0.278	0.626	0.563	
Total Cyanide mg/L	---	---	<0.0050	<0.0050	<0.0050	---	---	<0.0050	<0.0050	0.005
Total Suspended Solids mg/L	5.8	9.8	148	<3.0	3.8	9.3	58.8	112	4.3	
Total Dissolved Solids mg/L	257	246	265	141	216	270	393	216	213	
Total Metals mg/L										
Arsenic	0.00031	0.00100	0.00791	0.00054	0.00047	0.00028	0.00478	0.00774	0.00475	0.005
Cadmium	0.000085	0.000074	0.000204	<0.000050	0.000067	0.000099	0.000147	0.000200	0.000058	***
Copper	0.00183	0.00225	0.00591	0.00075	0.00121	0.00194	0.00240	0.00622	0.00245	0.003
Iron	0.130	0.277	2.56	0.065	0.090	0.172	1.17	2.50	0.465	0.3
Lead	0.000062	0.000213	0.00153	0.000054	<0.000050	0.000105	0.00117	0.00137	0.000300	0.004
Mercury	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	0.0001
Selenium	0.0025	0.0016	0.0018	<0.0010	0.0015	0.0028	0.0024	0.0019	0.0018	0.001
Zinc	<0.0080	<0.0070	0.0193	<0.0030	<0.0050	<0.010	0.0133	0.0178	<0.0060	0.03
Hardness as CaCO3 mg/L	237	238	194	131	182	242	317	188	177	

* CCME (1999) Canadian Water Quality Guidelines for the Protection of Freshwater Aquatic Life

** at pH 8 and temp at 5°C

*** Varies with Hardness: For the hardness of the waters in the study area, the guideline ranges from 0.00004 to 0.00009 mg/L, according to the calculation $10\{0.86[\log(\text{hardness})]-3.2\}$

Values in bold indicate that the CCME guideline has been exceeded

background sites indicate that selenium is a naturally occurring metal in the Brewery Creek study area.

4.3 STREAM SEDIMENT QUALITY

The results for the total metals analyses of the samples are presented in Appendix C. Of the 63 metals analyzed, 3 were below the method detection limit, boron, germanium and tantalum.

Six elements (As, Cd, Cu, Pb, Se and Zn) were chosen for closer examination as these are either metals of concern in the study area or have the potential to be toxic to the aquatic system. The concentrations of these metals were compared to the CCME (1999) interim freshwater sediment quality guidelines (ISQG) and to the probable effects levels (PEL). Generally, concentrations greater than the PEL have a 50% incidence of creating adverse biological effects (see Table 4).

All sites exceeded the ISQG for arsenic. The concentrations in the stream sediments at the Laura Creek sites, at Golden Creek and Lucky Creek, also exceeded the PEL. The stream sediments in Laura Creek near the mouth (B9) had the greatest concentration of arsenic (104 ppm). Stream sediments have not been analyzed at B9 previously, consequently it is unknown at this time, if this high value is anomalous.

The sediments at all of the sites exceeded the ISQG for cadmium but were below the PEL. The concentration of copper was below the PEL at all sites and also below the ISQG at B4, B8 and B9. All sites exceeded the ISQG for mercury but remained below the PEL. The concentration of lead in the stream sediments at all of the sites was below the ISQG. With the exception of B8, all sites exceeded the ISQG for zinc, with the PEL also exceeded at the Lee Creek sites (B1 and B6).

**TABLE 4
SUMMARY OF STREAM SEDIMENT METAL CONCENTRATIONS, 2005**

Site	Site Description	As ppm	Cd ppm	Cu ppm	Hg ppb	Pb ppm	Se ppm	Zn ppm
B1	Lee Cr @ Ditch Road	9.2	2.0	48.2	204	11.3	2.3	353
B2	Golden Cr	36.3	2.3	39.7	247	17.7	2.2	297
B3	Laura Cr u/s Ditch Road	40.0	2.5	62.5	131	19.1	3.5	192
B4	S. Klondike r u/s Golden Cr	16.4	1.0	25.9	85	12.2	1.0	168
B5	S. Klondike R d/s Lee Cr	13.3	1.3	38.0	134	11.5	1.6	231
B6	Lee Cr u/s Pacific Cr	9.0	2.6	53.0	223	12.1	2.4	335
B7	Lucky Cr	89.8	1.5	41.0	377	29.3	1.9	211
B8	Laura C in Wetland	21.8	1.1	29.5	71	14.7	1.4	122
B9	Laura Cr u/s S. Klondike R	104.0	1.6	35.4	417	22.7	3.1	218
ISQG		5.9	0.6	35.7	17	35.0		123
PEL		17	3.5	197	486	91.3		315

Note: ISQG = Interim Freshwater Sediment Quality Guidelines, in bold where exceeded.
 PEL = Probable Effects Level (>50% of adverse effects could occur above this level), shaded and in bold where exceeded.

Selenium has been identified as a metal of concern at the Brewery Creek property. There are no CCME guidelines for selenium in sediment. Concentrations ranged from 1.0 ppm in the stream sediments at B4 (South Klondike River u/s Golden Cr) to 3.5 ppm at B3 (Laura Cr u/s Ditch Road).

Environment Canada maintains a database on metals in stream sediments from sites around the Yukon. Of 658 analyses where selenium was detected, the mean was 2.4 ppm and concentrations ranged from 0.1 to 38.8 ppm (Davidge and Godin, 2005). The high concentrations were documented in the Mac Pass region. The concentrations reported in the Brewery Creek study area fall on both sides of the average and are fairly representative of concentrations at most of the sites in the Yukon.

The 2005 stream sediment data was compared to the 1995, 1997, 1999, 2001 and 2003 data sets (Table 5). The temporal concentrations of arsenic, copper, selenium and zinc are graphed in Figures 2, 3, 4 and 5 respectively. The average for the six sampling periods has been plotted for each metal in each graph. The detection limit for selenium in 1995 was 50 ppm, and selenium was not detected at any of the sites, hence there are no data represented for 1995 in Figure 4.

The concentrations of some of the metals have generally fluctuated over the years at some of the sites. Although this is a limited database, the following observations were noted:

- Arsenic levels are uniformly much higher in Lucky Creek than the other sites, due to the geology of the Bohemian zone (Burns 2000). Concentrations peaked at this site in 1999 and have steadily decreased since.
- Arsenic levels have been relatively constant over time at the other sites.
- Copper concentrations fluctuated somewhat throughout, with a significant increase at B4 (South Klondike River upstream of Golden Creek) in 1999. One of the triplicates had a very high concentration bringing up the average at this site in 1999. The other five years of data would tend to indicate that this was an anomalous reading and it should be considered an outlier.
- The stream sediments at the Lee Creek sites had the greatest mean concentrations of copper.
- The highest mean concentrations of selenium occurred at the Lee Creek sites. The geochemistry of this watershed within the study area appears to be consistent as concentrations of selenium, as well as arsenic, copper and zinc, are very similar at B6,

Lee Creek upstream of Pacific Creek, and downstream at B1, Lee Creek at the ditch road. Selenium inputs from Lee Creek may be generating an increase in the sediments in the South Klondike River downstream at B5. However, there has also been a corresponding gradual increase in concentrations upstream in the South Klondike River at B4, located upstream of Golden Creek. This data could reflect natural fluctuations in the S. Klondike River, or indicate that there may be a gradual release of selenium further upstream of the Brewery Creek property. The mean concentration of selenium at both South Klondike River sites is very similar.

- Zinc concentrations have been relatively consistent over time at all of the sites. Concentrations are highest in the stream sediments at both of the Lee Creek sites.

Metals in sediments are difficult to interpret because levels vary widely as a function of natural mineralization of local soils in a given watershed. The levels in Table 5 are consistent with other mineral target areas in the Yukon (Environmental Protection, 1992).

Metal (ppm)	Year	B1	B2	B3	B4	B5	B6	B7
Arsenic	1995	8.3	35.2	21.2	20.9	20.4	6.3	70.6
	1997	9.4	37.8	66.4	12.2	14.3	10.7	106.6
	1999		50.5	65.8	21.8	20.9	12.2	191.3
	2001	11.9	35.0	71.4	22.3	18.4	12.8	158
	2003	11.8	48.9	47.5	15.9	19.3	11.5	141.5
	2005	9.2	36.3	40.9	16.4	13.3	9	69.8
	Mean	10.1	40.6	52.2	18.3	17.8	10.4	123.0
	S.D.	1.6	7.1	19.3	4.0	3.2	2.4	49.2
Copper	1995	70.3	61.7	30.6	30	74.7	51.8	33.8
	1997	66.9	54.8	38.4	23.5	32.1	61.2	34.5
	1999		95.9	40.93	115.07	52.67	82.73	49.07
	2001	57.4	43.9	26.8	29.3	30.2	63.4	38.9
	2003	54.7	48.1	24.8	22.4	26.5	58.3	33.9
	2005	48.2	39.7	62.5	25.9	38	53	41
	Mean	59.5	57.4	37.3	41.0	42.4	61.7	38.5
	S.D.	9.0	20.4	13.9	36.4	18.3	11.2	6.0
Selenium	1995	<50	<50	<50	<50	<50	<50	<50
	1997	3.2	2.5	3.6	0.4	0.4	3.0	2.0
	1999		2.67	2.3	0.5	0.7	2.3	2.3
	2001	2.99	2.6	2.1	1	1.2	3.4	3.1
	2003	3	3	1.5	0.9	1.2	2.7	2.5
	2005	2.3	2.2	3.5	1.0	1.6	2.4	1.9
	Mean	2.9	2.6	2.6	0.8	1.0	2.8	2.4
	S.D.	0.4	0.3	0.9	0.3	0.5	0.4	0.5
Zinc	1995	395	288	88	145	203	385	216
	1997	456	306	175	125	162	416	168
	1999		289	175	163	163	447	237
	2001	435	297	176	159	184	448	213
	2003	428	310	142	132	170	431	241
	2005	353	297	192	168	231	335	211
	Mean	413	298	158	149	186	410	214
	S.D.	45	8	26	19	32	61	17

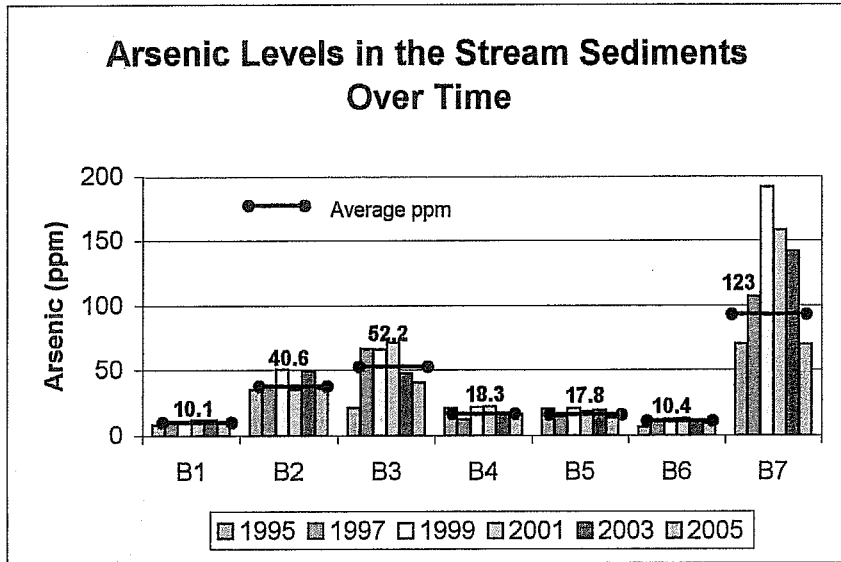


Figure 2

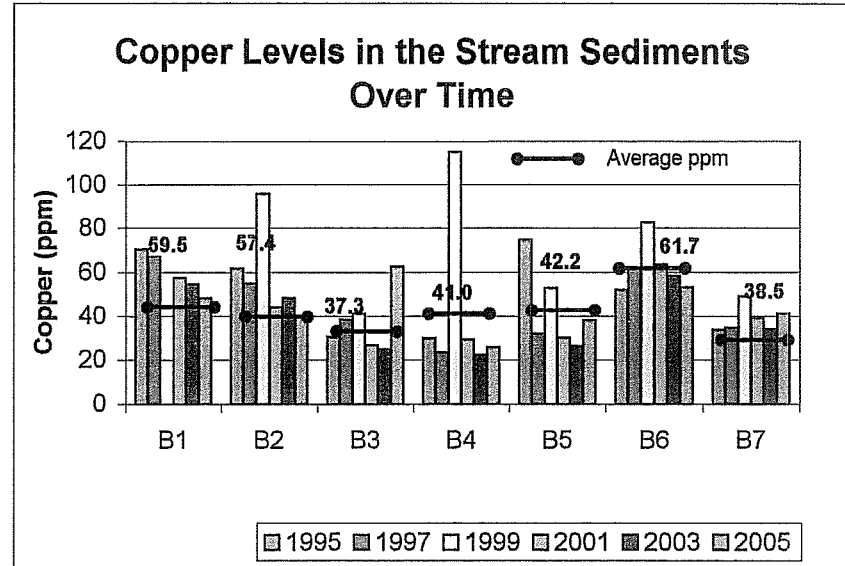


Figure 3

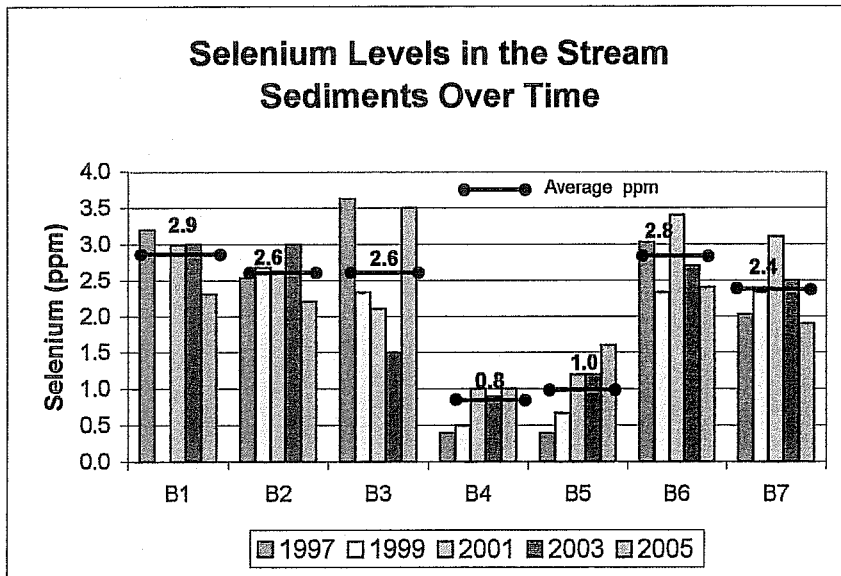


Figure 4

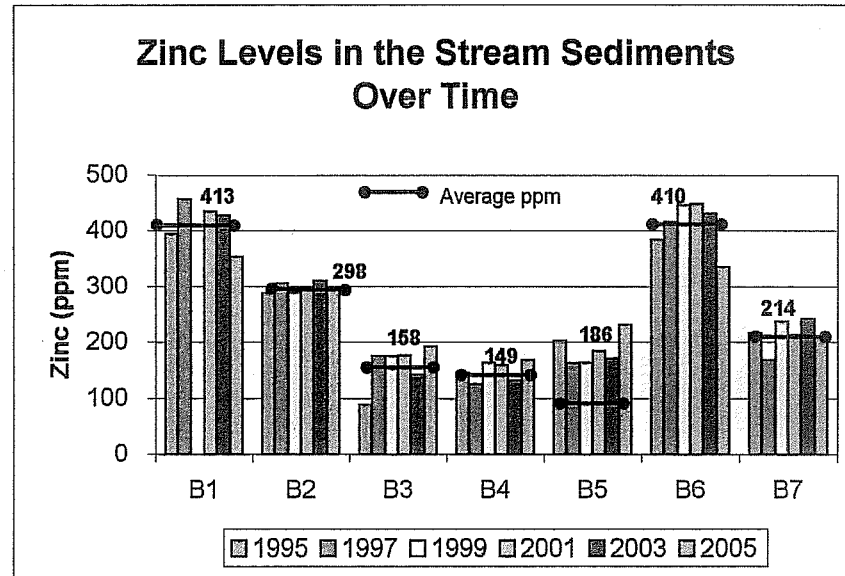


Figure 5

4.4 BENTHIC INVERTEBRATES

Six phyla were found in the study area: Arthropoda, Mollusca, Annelida, Nematoda, Platyhelminthes and Coelenterata. A total of 17,178 individual invertebrates, representing 87 different taxonomic groups, were identified within the study area. These data are presented in Appendix D.

4.4.1 Abundance and Taxonomic Richness

Triplicate samples for benthic invertebrates were collected at each site with attempts made to collect samples representative of each site.

The number of organisms of the triplicates for each site was summed to give a total abundance value for that site. The abundance values ranged from a low of 550 individuals at the South Klondike River upstream Golden Creek (B4), to a high of 5,141 individuals downstream on the South Klondike River at B5 (Table 6).

SITE	LOCATION	ABUNDANCE	DIVERSITY	TAXONOMIC RICHNESS INDEX
B1	Lee Creek u/s Ditch Road	3,783	39	4.6
B2	Golden Creek	2,222	37	4.7
B3	Laura Creek u/s Ditch Road	605	29	4.4
B4	S. Klondike R u/s Golden Cr	505	37	5.7
B5	S. Klondike R d/s Lee Creek	5,141	32	3.6
B6	Lee Creek u/s Pacific Creek	1,007	44	6.2
B7	Lucky Creek	1,109	42	5.8
B8	Laura Creek in wetland	665	44	6.6
B9	Laura Creek in wetland	2,096	31	3.9

As a measure of community diversity, the number of taxonomic groups identified from species to phylum at each site was tallied. The diversity ranged from 29 different taxonomic groups identified at Laura Creek u/s Ditch Road (B3), to 44 at Lee Creek u/s Pacific Cr (B6) and at Laura Creek in the wetland (B8)(Table 6).

To further characterize the taxonomic wealth of each community, the diversity was related to the population size using the formula (Diversity –1) divided by the natural log of the population. The richness index ranged from 3.6 at B5, South Klondike River d/s Lee Creek to 6.6 at B8, Laura Creek in the wetland.

Overall, all the communities were diverse and relatively robust.

Densities were calculated for the population data at the licensed sites to enable comparisons between the various samplers and dates (Table 7). The population data collected by Norecol were significantly higher than that collected by Environment Protection (EP) during studies that were conducted in July 1991. The high populations at all of the sites documented by Norecol, have also not been duplicated in the ensuing studies. Excluding the Norecol 1991 data, the populations at most of the sites have varied somewhat over the years (Figures 6 and 7). The highest populations to date occurred in 2005 at B1 and B5. Relatively low populations were recorded at most of the sites in 1997 and 2003. Populations fluctuated to the greatest extent at B1. Community numbers appear to be moderately stable over time at B6 and B7.

**TABLE 7
DENSITIES (# of organisms/m²)/SITE/SAMPLER**

SITE	LES August 2005	LES Sept. 2003	LES August 2001	LES August 1999	LES August 1997	LES August 1995	LES Sept, 1994	NORE-COL July, 1991	EP July, 1991
B1	13,574	3,914	6,886	11,310	2,637	5,346	5,532	31,921	9,656
B2	7,973	2,895	2,781	4,345	1,410	7,244	8,114	19,494	1,726
B3	2,171	1,406	3,373	4,582	6,390	4,539	3,350	28,506	
B4	1,973	1,084	2,852	6,179	542	4,449	6,436	44,225	2,883
B5	18,446	1,909	3,093	7,130	466	7,155	5,946	14,590	3,748
B6	3,613	1,597	3,147	3,276	2,709	1,988	3,761	20,062	3,712
B7	3,979	4,026	4,862	2,063	954	2,321	4,646		

Many variables contribute to invertebrate productivity such as water temperature, air temperature, rainfall, canopy cover, substrate type and size, stream depth and velocity, as well as water and sediment quality.

Figure 6

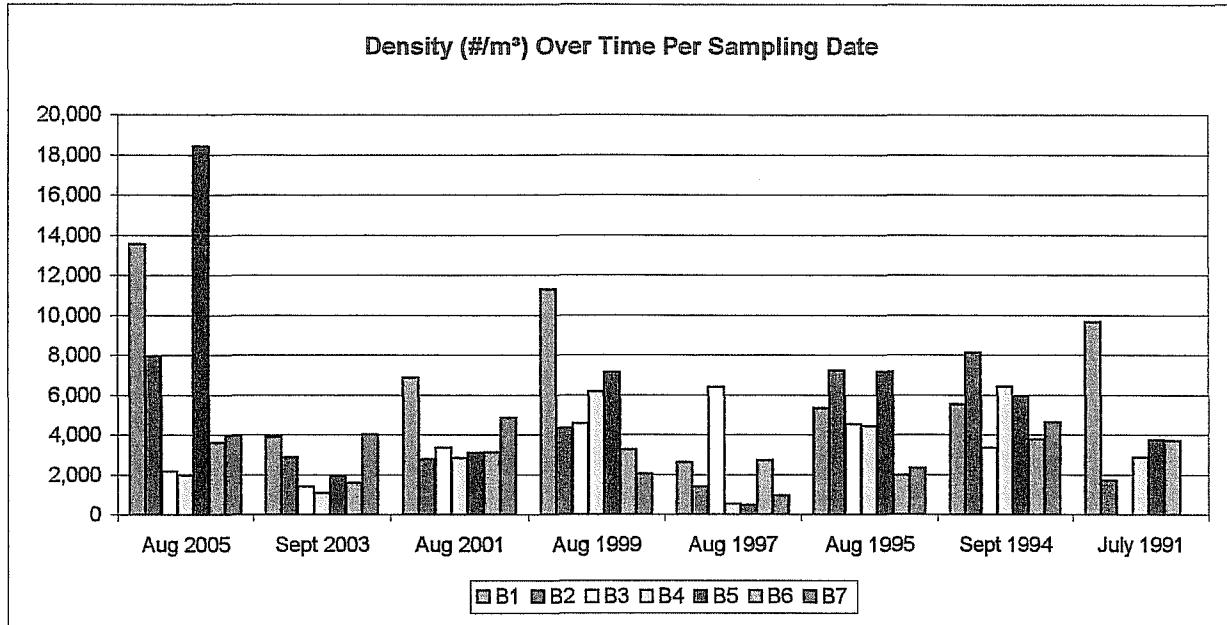
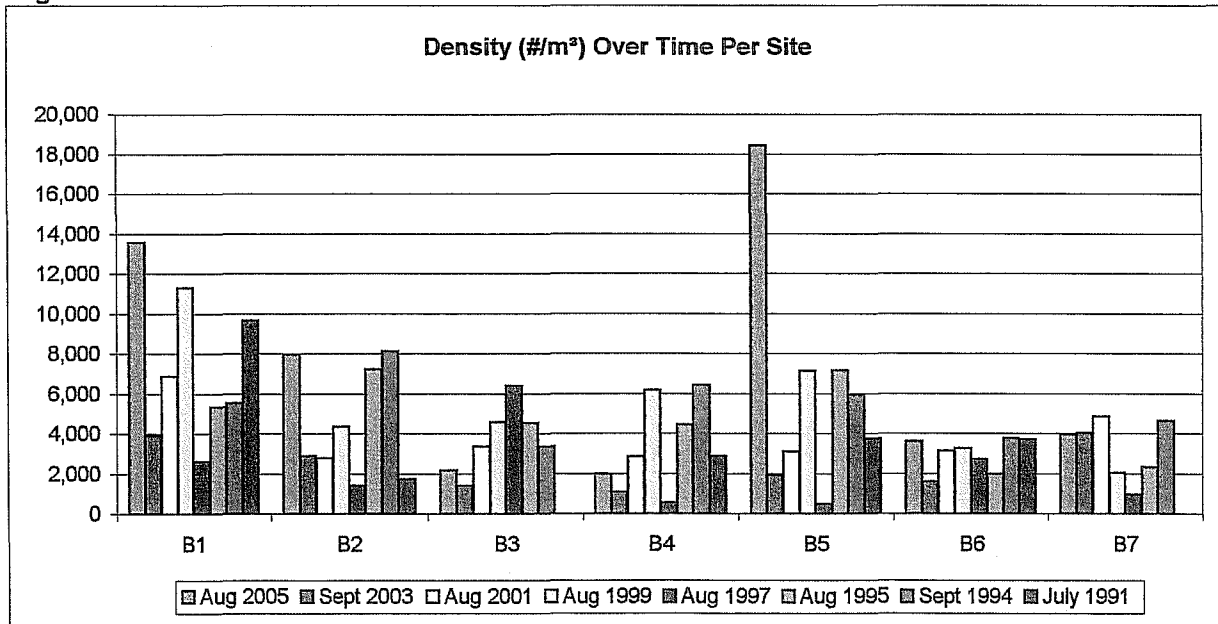


Figure 7



4.4.2 Distribution

The composition of the benthos communities was displayed as a percentage of the major taxonomic groups for each station (Table 8). Based on this, taxa were classified with respect to their dominance within the community (Table 9).

Diptera (true flies) was the dominant or co-dominant group at B4, B5, B7 and B8. Oligochaeta (aquatic earthworms) was the dominant or co-dominant group at B1, B2, B3 and B6. Plecoptera (stoneflies) shared dominance with Oligochaeta at B6. Homoptera (leafhoppers) shared dominance with Oligochaeta at B1. Homoptera has not typically formed a significant portion of the communities previously in the study area. Homoptera was subdominant at B7 and common at most of the other sites. There are no true aquatic species of Homoptera, however the family Cicadellidae are semiaquatic and are found along stream margins. The majority of Homoptera identified in the study area belong to the family Aphididae. Aphids feed on vegetation, typically on willows, poplar, birch, alder and spruce in the Yukon Territory (Danks and Downes, 1997). Their predominance in the samples probably resulted from dropping into the water when vegetation was disturbed during access to the sites. Interestingly, the site is very open at B1 (Lee Creek at the Yukon ditch road) and yet 1,495 aphids were collected here. Insect orders were the subdominant groups at all sites except at B9 where Oligochaeta shared subdominance.

The distribution of the various groups of taxa has been relatively stable at each site over time. (Table 10). Insects, usually Diptera, have dominated the Klondike River sites (B4 and B5) and Lucky Creek (B7). Aquatic earthworms, Oligochaetes, have generally dominated the communities at Golden Creek (B2) and Laura Creek (B3) over time. Dominance has shifted between Oligochaetes and insects at the Lee Creek sites (B1 and B6).

Oligochaetes formed a significant portion of the populations at all of the creek sites, and usually were either dominant or subdominant. The majority of the Oligochaetes at most of the sites were identified within the family Enchytraeidae. This family is tolerant of cold temperatures, and is often found in cold mountain streams (Pennak, 1978). The majority of the Oligochaetes were tubificids at B6 (Lee Creek u/s Pacific Creek) and at B7 (Lucky Creek).

TABLE 8
THE PERCENTAGE OF COMPOSITION OF DIFFERENT TAXONOMIC
GROUPS AT EACH STATION

TAXONOMIC GROUP	B1	B2	B3	B4	B5	B6	B7	B8	B9
Ephemeroptera (mayflies)	3.3	6.2	1.0	14.7	1.0	10.3	0.9	0.9	1.3
Plecoptera (stoneflies)	3.8	9.5	2.1	11.1	2.6	41.8	8.6	13.4	54.2
Diptera (true flies)	7.2	10.7	17.9	64.5	93.5	7.9	57.3	68.7	20.6
Oligochaeta (aquatic earthworms)	45.0	69.0	70.1	7.5	0.3	27.8	9.3	6.9	13.7
Homoptera (leafhoppers)	39.5	1.5	7.6	0.2	0.0	9.5	17.6	2.7	2.5
Other *	1.2	3.1	1.3	1.7	2.4	2.6	6.4	7.3	8.3

* Other includes one or more of the following taxonomic groups:

Trichoptera	Platyhelminthes	Colembola	Gastropoda
Ostracoda	Copepoda	Coleoptera	Hydracarina
Thysanoptera	Lepidoptera	Hymenoptera	Aranae
Coelenterata	Cladocera	Nematoda	

TABLE 9
TAXONOMIC DISTRIBUTION OF BENTHIC INVERTEBRATES

SITE	LOCATION	DOMINANT (≥25%)	SUBDOMINANT (10% to 24.9%)	COMMON (1.0% to 9.9%)	RARE (0.1% to 0.9%)
B1	Lee Creek at Klondike Ditch Road	Oligochaeta Homoptera		Diptera Plecoptera Ephemeroptera Other	
B2	Golden Creek	Oligochaeta	Diptera	Plecoptera Ephemeroptera Other Homoptera	
B3	Laura Creek	Oligochaeta	Diptera	Homoptera Plecoptera Other Ephemeroptera	
B4	S. Klondike R u/s Golden Creek	Diptera	Ephemeroptera Plecoptera	Oligochaeta Other	Homoptera
B5	S. Klondike R d/s Lee Creek	Diptera		Plecoptera Other Ephemeroptera	Oligochaeta
B6	Lee Creek u/s Pacific Creek	Plecoptera Oligochaeta	Ephemeroptera	Homoptera Diptera Other	
B7	Lucky Creek	Diptera	Homoptera	Oligochaeta Plecoptera Other	Ephemeroptera
B8	Laura Creek in Wetland	Diptera	Plecoptera	Other Oligochaeta Homoptera	Ephemeroptera
B9	Laura Cr near mouth	Plecoptera	Diptera Oligochaeta	Other Homoptera Ephemeroptera	

TABLE 10
DOMINANT TAXA OVER THE STUDY PERIOD

Site	2005	2003	2001	1999	1997	1995	1994
B1	Oligochaeta & Homoptera	Oligochaeta	Diptera	Oligochaeta	Diptera	Oligochaeta	Oligochaeta
B2	Oligochaeta	Oligochaeta & Diptera	Oligochaeta & Nematoda	Diptera & Oligochaeta	Oligochaeta	Oligochaeta	Oligochaeta
B3	Oligochaeta	Oligochaeta	Oligochaeta	Oligochaeta	Oligochaeta	Oligochaeta	Diptera
B4	Diptera	Diptera & Ephemeroptera	Diptera	Diptera	Diptera	Diptera & Ephemeroptera	Ephemeroptera & Plecoptera
B5	Diptera	Diptera	Diptera	Diptera	Diptera	Diptera	Diptera
B6	Plecoptera & Oligochaeta	Oligochaeta & Plecoptera	Oligochaeta Diptera & Plecoptera	Diptera	Diptera & Ephemeroptera	Plecoptera & Oligochaeta	Diptera, Plecoptera & Oligochaeta
B7	Diptera	Diptera	Diptera	Diptera	Diptera	Diptera	Diptera
B8	Diptera	Diptera					

Oligochaetes formed a significant portion of the populations at all of the creek sites, and usually were either dominant or subdominant. The majority of the Oligochaetes at most of the sites were identified within the family Enchytraeidae. This family is tolerant of cold temperatures, and is often found in cold mountain streams (Pennak, 1978). The majority of the Oligochaetes were tubificids at B6 (Lee Creek u/s Pacific Creek) and at B7 (Lucky Creek).

Concentrated populations of Oligochaetes are generally thought to be an indication of organic (sewage) pollution (Pennak, 1989). Some characteristics of sewage pollution are depressed oxygen levels and high nutrient levels in the water. These conditions are not present in the creeks in the study area. All waters were well aerated (Table 3) and levels of nitrogen and phosphorus were very low where detected (Appendix B). In addition, there is no source of sewage at any of these locations as a septic system is in place and receives any domestic waste. As high numbers of Oligochaetes were also identified in the 2003, 2001, 1999, 1997, 1995, 1994 and 1991 surveys, it can be assumed that they are ubiquitous to this area.

Except for the previously discussed burnt area at B6, there has been no physical disturbance at the seven monitoring sites and the riparian vegetation and substrate type has remained unchanged since last assessed in 2003. Habitat data and site characteristics are available in past reports that are on file at the Yukon Territory Water Board.

5.0 SUMMARY

Overall, the water samples collected at the sites in this study indicated excellent water quality for the support of aquatic life. The cool, slightly alkaline waters were hard to very hard at all sites. The CCME guidelines for freshwater aquatic life were slightly exceeded for a few parameters at some of the stations.

There has been little change in the concentrations of metals in the stream sediments. Arsenic concentrations remain high in the stream sediments at all of the sites, often exceeding the concentrations that have the potential to adversely affect biotic life. However the benthic communities at all sites appear healthy and robust.

All benthic communities were diverse with good representation from the major groups of organisms that are usually present in lotic waters. Population numbers were generally up in 2005. Most of the creeks supported naturally occurring high populations of Oligochaeta, and the South Klondike River sites were dominated by aquatic insects. Over the years (1991, 1994, 1995, 1997, 1999, 2001, 2003 and 2005) the composition of the benthic communities has been relatively similar but there has been variation in abundance at each site.

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APPENDIX A

PHOTOGRAPHS OF B9, LAURA CREEK NEAR MOUTH



Laura Creek at B9 looking upstream, August 29, 2005.



Laura Creek at B9 looking downstream, August 29, 2005.

APPENDIX B

WATER QUALITY RESULTS, BREWERY CREEK, 2005

APPENDIX B

WATER QUALITY RESULTS, BREWERY CREEK, 2005

Benthic Site ID	Units	Detection Limit	B-1 BC34	B-2 BC31	B-3 BC1	B-4 BC38	B-5 BC6	B-6 BC33	B-7 BC4	B-8 BC53	B-9 BC39
WQ Sample ID			21	18	1	25	6	20	4	28	26
ALS Sample ID											
Physical Tests											
pH	pH units	0.010	8.21	8.24	7.82	8.02	8.09	8.22	8.14	7.71	8.11
Conductivity	(uS/cm)	2.0	410	410	351	250	327	415	555	346	339
Hardness	CaCO3	0.54	237	238	194	131	182	242	317	188	177
Alkalinity-Total	CaCO3	2.0	135	141	117	93.3	106	135	153	114	115
Total Dissolved Solids	mg/L	10	257	246	265	141	216	270	393	216	213
Total Suspended Solids	mg/L	3.0	5.8	9.8	148	<3.0	3.8	9.3	58.8	112	4.3
Chloride	Cl	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Sulphate	SO4	1.0	95.8	90.1	76.5	49.5	71.3	98.7	162	78.1	74.5
Ammonia Nitrogen	N	0.020	0.068	0.057	0.064	0.076	0.030	0.050	0.042	0.053	0.035
Nitrate Nitrogen	N	0.0050	0.0907	0.135	0.625	0.0660	0.0749	0.111	0.278	0.626	0.563
Total Cyanide	CN	0.0050	-	-	<0.0050	<0.0050	<0.0050	-	-	<0.0050	<0.0050
WAD Cyanide	CN	0.0050	-	-	<0.0050	<0.0050	<0.0050	-	-	<0.0050	<0.0050
Total Metals											
Aluminum	T-Al	0.0010	0.0622	0.107	1.50	0.0251	0.0367	0.0775	0.574	1.44	0.203
Antimony	T-Sb	0.00010	0.00031	0.00117	0.00290	0.00017	0.00022	0.00028	0.00437	0.00291	0.00288
Arsenic	T-As	0.00010	0.00031	0.00100	0.00791	0.00054	0.00047	0.00028	0.00478	0.00774	0.00475
Barium	T-Ba	0.000050	0.0526	0.0649	0.148	0.0551	0.0533	0.0514	0.103	0.140	0.0944
Beryllium	T-Be	0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Bismuth	T-Bi	0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Boron	T-B	0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Cadmium	T-Cd	0.000050	0.000085	0.000074	0.000204	<0.000050	0.000067	0.000099	0.000147	0.000200	0.000058
Calcium	T-Ca	0.050	60.8	57.1	48.3	36.0	47.6	61.9	77.3	46.3	43.6
Chromium	T-Cr	0.00050	<0.00050	<0.00050	0.00300	<0.00050	<0.00050	<0.00050	0.00123	0.00288	0.00084
Cobalt	T-Co	0.00010	<0.00010	0.00031	0.00301	<0.00010	<0.00010	0.00011	0.00078	0.00289	0.00160
Copper	T-Cu	0.00010	0.00183	0.00225	0.00591	0.00075	0.00121	0.00194	0.00240	0.00622	0.00245
Iron	T-Fe	0.030	0.130	0.277	2.56	0.065	0.090	0.172	1.17	2.50	0.465
Lead	T-Pb	0.000050	0.000062	0.000213	0.00153	0.000054	<0.000050	0.000105	0.00117	0.00137	0.000300
Lithium	T-Li	0.0050	<0.0050	<0.0050	0.0102	<0.0050	<0.0050	<0.0050	0.0073	0.0103	0.0083
Magnesium	T-Mg	0.10	20.6	23.2	17.9	10.1	15.4	21.2	30.2	17.7	16.5
Manganese	T-Mn	0.000050	0.0159	0.0265	0.142	0.00876	0.00946	0.0153	0.122	0.137	0.0322
Mercury	T-Hg	0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Molybdenum	T-Mo	0.000050	0.00158	0.00146	0.00252	0.000465	0.000947	0.00147	0.00187	0.00253	0.00257
Nickel	T-Ni	0.00050	0.00292	0.00261	0.00699	0.00077	0.00152	0.00280	0.00419	0.00683	0.00279
Phosphorus	T-P	0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Potassium	T-K	2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Selenium	T-Se	0.0010	0.0025	0.0016	0.0018	<0.0010	0.0015	0.0028	0.0024	0.0019	0.0018
Silicon	T-Si	0.050	3.31	3.59	7.12	2.91	3.05	3.33	4.08	7.15	5.11
Silver	T-Ag	0.000060	<0.000010	<0.000010	<0.000060	<0.000010	<0.000010	<0.000010	<0.000020	<0.000040	<0.000030
Sodium	T-Na	2.0	<2.0	<2.0	3.7	<2.0	<2.0	<2.0	<2.0	3.6	3.5
Strontium	T-Sr	0.00010	0.231	0.263	0.235	0.217	0.213	0.235	0.392	0.228	0.220
Sulphur	T-S	0.50	31.3	29.7	24.6	15.9	22.8	32.1	52.1	24.5	23.6
Thallium	T-Tl	0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Tin	T-Sn	0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Titanium	T-Ti	0.010	<0.010	<0.010	0.050	<0.010	<0.010	<0.010	0.021	0.050	<0.010
Uranium	T-U	0.000010	0.00123	0.00188	0.00181	0.000570	0.000883	0.00123	0.00254	0.00179	0.00167
Vanadium	T-V	0.0010	0.0012	0.0014	0.0079	<0.0010	<0.0010	0.0013	0.0031	0.0075	0.0028
Zinc	T-Zn	0.0010	<0.0080	<0.0070	0.0193	<0.0030	<0.0050	<0.010	0.0133	0.0178	<0.0060

APPENDIX C

STREAM SEDIMENT RESULTS, BREWERY CREEK, 2005

APPENDIX C

CONCENTRATIONS OF METALS IN STREAM SEDIMENTS, BREWERY CREEK, 2005

Benthic Sample #	WQ/Sediment Sample #	Hg	LOI	C-Organ	Li	Be	B	Na	Mg	Al	P	S	K	Ca	V	Cr
		ppb	%	%	ppm	ppm	ppm	%	%	%	%	%	%	%	ppm	ppm
		Hg-FIMS	FUS-ICP	IR	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-ICP	AR-ICP	AR-MS	AR-MS	AR-MS	AR-MS
B1	BC-34 W7	204	7.06	1.17	11.3	0.6	< 1	0.008	0.6	1.22	0.18	0.048	0.15	0.84	125	36.4
B2	BC-31 W2	247	9.54	2.3	14.7	0.7	< 1	0.009	0.46	1.21	0.103	0.064	0.21	0.76	107	32.4
B3	BC-1 W5	131	25.07	9.56	17.1	0.9	< 1	0.011	0.61	1.54	0.079	0.148	0.12	1.66	92	39.4
B4	BC-38 W8	85	5.91	1.01	18.7	0.5	< 1	0.011	0.44	1.16	0.068	0.04	0.14	0.46	54	23.3
B5	BC-6 W9	134	6.5	1.28	16.4	0.6	< 1	0.01	0.52	1.33	0.115	0.054	0.2	0.61	101	31.8
B6	BC-33 W6A	223	8.31	1.68	11.2	0.7	< 1	0.008	0.6	1.32	0.156	0.06	0.17	0.85	126	36.1
B7	BC-4 W13	377	6.49	1.18	18.1	0.7	< 1	0.012	0.64	1.41	0.075	0.049	0.19	0.88	102	33.9
B8	BC-53	71	10.38	3.32	12.5	0.6	< 1	0.014	0.49	1.25	0.062	0.06	0.11	0.8	65	27.9
B9	BC-39	417	13.15	4.45	19.6	0.8	< 1	0.011	0.47	1.7	0.081	0.061	0.17	0.72	93	33.1
	Detection Limit:	5	0.01	0.05	0.1	0.1	1	0.001	0.01	0.01	0.001	0.001	0.01	0.01	1	0.5
Benthic Sample #	WQ/Sediment Sample #	Ti	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Rb	Sr	Y	Zr
		%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		AR-ICP	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
B1	BC-34 W7	0.07	425	2.55	13	61.2	48.2	353	7.2	< 0.1	9.2	2.3	11.6	82.6	14.2	3.8
B2	BC-31 W2	0.03	618	2.63	12.4	56.8	39.7	297	8.24	< 0.1	36.3	2.2	16.8	82.8	11.4	1.9
B3	BC-1 W5	0.06	1030	3.31	17.2	59.4	62.5	192	5.68	< 0.1	40.9	3.5	14.5	108	17.9	6.5
B4	BC-38 W8	0.03	554	2.38	11	34	25.9	168	6.7	< 0.1	16.4	1	13.3	46.5	8.19	1.9
B5	BC-6 W9	0.06	501	2.45	11.7	45.1	38	231	7.66	< 0.1	13.3	1.6	16.2	63.3	11.1	2.6
B6	BC-33 W6A	0.08	481	2.74	12.1	58.6	53	335	8.04	< 0.1	9	2.4	12.5	78.3	14.7	3.1
B7	BC-4 W13	0.05	633	3.53	14.5	46	41	211	8.84	< 0.1	69.8	1.9	19.5	91.8	10.3	2.8
B8	BC-53	0.06	515	2.28	11	35.5	29.5	122	7.59	< 0.1	21.8	1.4	12.8	57.8	9.73	2.8
B9	BC-39	0.02	1320	3.02	14.6	42.5	35.4	218	6.65	< 0.1	104	3.1	22.3	66.4	9.97	0.7
	Detection Limit:	0.01	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.5	0.01	0.1
Benthic Sample #	WQ/Sediment Sample #	Sc	Pr	Gd	Dy	Ho	Er	Tm	Nb	Mo	Ag	Cd	In	Sn	Sb	Te
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
B1	BC-34 W7	4.1	4.6	3.6	2.7	0.5	1.3	0.2	1.1	3.73	0.312	1.99	0.03	0.3	2.67	0.06
B2	BC-31 W2	4	5	3.3	2.34	0.4	1	0.1	0.6	2.97	0.27	2.25	0.03	0.38	6.64	0.05
B3	BC-1 W5	5.5	5.6	4.3	3.27	0.6	1.5	0.2	2.2	2.24	0.349	2.49	0.04	0.75	3.56	0.09
B4	BC-38 W8	2.7	5.3	3	1.74	0.3	0.8	< 0.1	0.4	1.55	0.046	0.98	0.02	0.31	0.75	0.03
B5	BC-6 W9	3.6	5.2	3.2	2.17	0.4	1	0.1	0.8	2.56	0.167	1.25	0.03	0.35	0.97	0.05
B6	BC-33 W6A	4.3	4.8	3.5	2.78	0.5	1.3	0.2	1.2	3.86	0.345	2.6	0.03	0.33	1.39	0.04
B7	BC-4 W13	4.7	6.2	3.5	2.21	0.4	1	0.1	0.8	3.42	0.208	1.52	0.04	0.64	7.2	0.05
B8	BC-53	3.8	4.5	2.9	2.08	0.4	0.9	0.1	1.1	1.25	0.084	1.06	0.02	0.25	2.17	0.03
B9	BC-39	4	5.3	3.5	2.21	0.4	1	0.1	0.5	3.38	0.273	1.61	0.03	0.32	10.9	0.05
	Detection Limit:	0.1	0.1	0.1	0.001	0.1	0.1	0.1	0.1	0.01	0.002	0.01	0.02	0.05	0.02	0.02

APPENDIX C

CONCENTRATIONS OF METALS IN STREAM SEDIMENTS, BREWERY CREEK, 2005

Benthic Sample #	WQ/Sediment Sample #	Cs	Ba	La	Ce	Nd	Sm	Eu	Tb	Yb	Lu	Hf	Ta	W	Re	Au
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
B1	BC-34 W7	0.83	813	17.1	32.6	17.5	3.4	0.8	0.4	0.8	< 0.1	< 0.1	< 0.05	< 0.1	0.003	< 0.5
B2	BC-31 W2	1.87	1210	20.1	39.1	19	3.7	0.7	0.4	0.6	< 0.1	< 0.1	< 0.05	< 0.1	0.003	< 0.5
B3	BC-1 W5	1.12	692	22.4	40.7	22	4.3	0.9	0.6	1.1	0.1	0.1	< 0.05	0.7	0.003	23.9
B4	BC-38 W8	1.46	858	21.9	42.1	19.8	3.3	0.8	0.3	0.4	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5
B5	BC-6 W9	1.47	961	20.9	41.2	20	3.4	0.7	0.4	0.5	< 0.1	< 0.1	< 0.05	< 0.1	0.001	< 0.5
B6	BC-33 W6A	0.92	855	17.2	35.7	18.9	3.5	0.8	0.5	0.9	< 0.1	< 0.1	< 0.05	< 0.1	0.002	< 0.5
B7	BC-4 W13	2.14	1180	24.8	48	22.9	4	0.8	0.4	0.5	< 0.1	< 0.1	< 0.05	< 0.1	0.001	6.4
B8	BC-53	1.12	523	18.6	36.4	16.7	3.1	0.7	0.4	0.7	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5
B9	BC-39	2.03	591	20.3	41.4	19.5	3.5	0.7	0.4	0.6	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	37.3
Detection Limit:		0.02	0.5	0.5	0.01	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1	0.001	0.5

Benthic Sample #	WQ/Sediment Sample #	Tl	Pb	Bi	Th	U	Total N
		ppm	ppm	ppm	ppm	ppm	%
B1	BC-34 W7	0.1	11.3	0.08	3.5	2.8	0.18
B2	BC-31 W2	0.2	17.7	0.23	4.3	2	0.24
B3	BC-1 W5	0.2	19.1	0.37	5	4.2	0.56
B4	BC-38 W8	0.11	12.2	0.12	5.3	1.5	0.14
B5	BC-6 W9	0.12	11.5	0.1	4.5	2.3	0.19
B6	BC-33 W6A	0.12	12.1	0.09	3.6	2.7	0.23
B7	BC-4 W13	0.32	29.3	0.2	5.7	1.7	0.18
B8	BC-53	0.17	14.7	0.13	4.6	1.9	0.23
B9	BC-39	0.3	22.7	0.24	4	3.4	0.36
Detection Limit:		0.02	0.01	0.02	0.1	0.1	0.01

APPENDIX D

BENTHIC INVERTEBRATE DATA, 2005

APPENDIX D

BENTHIC INVERTEBRATE DATA, BREWERY CREEK 2005

	B1a	B1b	B1c	B2a	B2b	B2c	B3a	B3b	B3c	B4a	B4b	B4c
Fines split to:	1/4	1/8	1/4	1/2	1/2	1/2						
PHYLUM ARTHROPODA												
Class Insecta												
Order Ephemeroptera												
Ephemeroptera A									1			
Family Siphonuridae												
Ameletus sp				3	10	7		1		2	1	2
Family Baetidae												
Baetis sp	4	49	3	2		2				9	14	4
Family Heptageniidae												
Cinygmula sp	5		10	13	70	27	2		2	14	25	4
Epeorus (Iron) sp	9	14	28								1	
Heptagenia sp												
Rhithrogena sp	1											
Family Ephemerellidae												
Drunella doddsi												
Drunella flavilinea			1									
Drunella grandis												
Ephemerellidae J					4					2	1	2
Order Plecoptera												
Family Capniidae												
Capnia sp	19	12	10	29	73	29	5	1	2	12	2	10
Family Perlidae												
Claasenia sabulosa												2
Isoperla sp												
Family Perlodidae												
Kogotus sp												
Megarcys sp			1									
Skwala curvata												
Skwala paralella							2			1		
Family Leuctridae												
Leuctra sp												
Family Nemouridae												
Nemoura sp												
Zapada sp	12	10	6	8	52	9		1		4	4	1
Family Pteronarcyidae												
Pteronarcys sp												
Family Chloroperlidae												
Sweltsa sp group	21	17	19	2	6				1	4	10	4
Family Taeniopterygidae												
Taenionema sp	3	11	4		2		1			1	4	2
Order Trichoptera												
Trichoptera Unid Juv	4					1						
Trichoptera P												
Family Hydropsychidae												
Arctopsyche sp												
Family Brachycentridae												
Brachycentrus sp												
Family Limnephilidae												
Ecclisomyia sp			5	9	12	4						1
Grensia sp												
Family Glossomatidae												
Glossosoma sp	1											
Family Hydroptilidae												
Hydroptilidae Juv												
Family Hydroptilidae												
Hydroptila sp												
Hydroptilidae Juv												
Family Rhyacophilidae												
Rhyacophilidae Juv	8											
Rhyacophila angelita												
Rhyacophila (acropedes or vao)			1									

unid = unidentified J = juvenile L = larvae A = adult P = pupae

APPENDIX D

BENTHIC INVERTEBRATE DATA, BREWERY CREEK 2005

	B1a	B1b	B1c	B2a	B2b	B2c	B3a	B3b	B3c	B4a	B4b	B4c
Fines split to:	1/4	1/8	1/4	1/2	1/2	1/2						
Order Diptera												
Diptera Unid A				1								
Diptera L							3	1				
Family Ceratopogonidae												
Bezzia sp										1	2	2
Family Chironomidae												
Chironomidae A		1		1			2	1	1	2	1	1
Chironomidae P	2	9	5	4	3	5	1			1	1	60
Chironomidae L	13		12	6	14	16		2	3	5	3	4
Sub family Orthoclaadiinae												
Brillia sp	4											
Cardiocladius sp		9	4	2				2		2	2	
Corynoneura sp									1			
Cricotopus sp	17	32	19	14	15	10	5	24	5	32	21	40
Eukiefferiella sp	9		5	2						2		2
Euryhopsis sp							2	5	3			
Synorthocladus sp	8		4	4	2	13						
Thienemanniella sp					4			1				
Sub family Diansesinae												
Diamesa sp	20	18	53		4	4	1	2	1	1	3	4
Sub Family Chironominae												
Micropsectra sp				10	24	10	3					1
Phaenopsectra sp										1		
Sub family Tanypodinae												
Thienemannimyia											1	
Family Dolichopodidae												
Dolichopus sp												
Family Empididae												
Chelifera sp			4	7	10	4						
Family Psychodidae												
Pericoma sp	1	1		3	5	4	9	12	12	5	6	8
Family Simuliidae												
Cnephia sp L										2	5	
Prosimulium sp L					3	1	1				2	
Prosimulium sp P					1							
Simulium sp L		8	2							27	101	3
Simulium sp P											1	
Family Tipulidae												
Dicranota sp	1	1	1	8	14	8	1	2	2			
Gonomyia sp												
Hesperoconopa sp		8										
Hexatoma sp												
Ormosia sp					1							
Rhabdomastix sp												
Order Collembola												
Hypogastrura sp												
Isotomurus sp								1		1		
Order Coleoptera												
Family Curculionidae A												
Family Dytiscidae												
Hydrovatus sp A	1											
Family Psephenidae												
Psephenus sp L												
Staphylinidae L				1								
Order Homoptera												
Family Aphididae	25	1424	46	10	12	12	15	16	14			1
Family Cicadellidae							1					
Order Hymenoptera A			1									

unid = unidentified J = juvenile L = larvae A = adult P = pupae

APPENDIX D

BENTHIC INVERTEBRATE DATA, BREWERY CREEK 2005

	B1a	B1b	B1c	B2a	B2b	B2c	B3a	B3b	B3c	B4a	B4b	B4c
Fines split to:	1/4	1/8	1/4	1/2	1/2	1/2						
Order Lepidoptera L												
Order Thysanoptera												
Class Arachnida												
Order Aranaea			1	1								
Order Hydracarina												
Hydracarina Unid J												
Lebertia sp												1
Sperchon sp		1										
Torrenticola sp												
Unioncola sp	4		4		2	2				1	2	
Wandesia sp												
Oribatei												
"thorny oribatei"												
Class Crustacea												
Sub class Copepoda												
Calanoida												
Cyclopoida					2		1			1		
Harpacticoida	4			2		2		1				
Order Cladocera												
Bosmina longirostris												1
Chydorus sphaericus											1	
Sub class Ostracoda												
Candona sp												
PHYLUM ANNELIDA												
Class Oligochaeta												
Family Enchytraeidae		694	1007	623	403	306	306	23	39	11	2	3
Family Lumbriculidae												
Kincaidiana hexatheca						11	1					
Family Tubificidae					99	92	14	33	8	8	15	2
PHYLUM MOLLUSCA												
Class Gastropoda												
Pupillidae					1							
PHYLUM NEMATODA	1	1	6	4	7	19	2	1	2	2		
PHYLUM PLATYHELMINTHES												
PHYLUM COELENTERATA												
Hydra sp	4											
Fish												
Cottus cognatus												
TOTAL PER SAMPLE:	201	2323	1259	769	856	597	378	130	97	154	233	163
TOTAL PER SITE:	3783			2222			605			550		
TAXONOMIC RICHNESS/SAMPLE	26	22	24	25	29	23	21	19	16	27	27	24
TAXONOMIC RICHNESS PER SITE:	39			37			29			37		

APPENDIX D

BENTHIC INVERTEBRATE DATA, BREWERY CREEK 2005

	B5a	B5b	B5c	B6a	B6B	B6c	B7a	B7b	B7c	B8a	B8b	B8c
Fines split to:	1/8	1/8	1/8									
PHYLUM ARTHROPODA												
Class Insecta												
Order Ephemeroptera												
Ephemeroptera A												
Family Siphonuridae												
Ameletus sp	3	1	1	1		27			2	1	2	
Family Baetidae												
Baetis sp			2	5	2	4		1			2	
Family Heptageniidae												
Cinygmula sp			1	5	4	12	2	4	1		1	
Epeorus (Iron) sp				22	14	5						
Heptagenia sp												
Rhithrogena sp					1							
Family Ephemerellidae												
Drunella doddsi			1			1						
Drunella flavilinea			2	1								
Drunella grandis	9	20	10									
Ephemerellidae J			2									
Order Plecoptera												
Family Capniidae												
Capnia sp	11	8	32	8	3	9	35	30	23	11	15	3
Family Perlidae												
Claasenia sabulosa												
Isoperla sp												
Family Perlodidae												
Kogotus sp												
Megarcys sp		1		8		5				1		
Skwala curvata												
Skwala paralella		1			1						2	
Family Leuctridae												
Leuctra sp												
Family Nemouridae												
Nemoura sp												
Zapada sp	8	16	35	4		2	1	4	1	1	53	1
Family Pteronarcyidae												
Pteronarcys sp												
Family Chloroperlidae												
Swetlsa sp group	9	6	6	180	30	149	1				1	
Family Taeniopterygidae												
Taenionema sp	1			15	5	2					1	
Order Trichoptera												
Trichoptera Unid Juv												
		1	1				1					1
Trichoptera P												
Family Hydropsychidae												
Arctopsyche sp												
Family Brachycentridae												
Brachycentrus sp												
Family Limnephilidae												
Ecclisomyia sp	8					1	1				1	6
Grensia sp												
Family Glossomatidae												
Glossosoma sp												
Family Hydropsychidae												
Hydropsychidae Juv												
Family Hydroptilidae												
Hydroptila sp												
Hydroptilidae Juv												
Family Rhyacophilidae												
Rhyacophilidae Juv												
Rhyacophila angelita												
Rhyacophila (acropedes or vao)												

unid = unidentified J = juvenile L = larvae A = adult P = pupae

APPENDIX D

BENTHIC INVERTEBRATE DATA, BREWERY CREEK 2005

	B5a	B5b	B5c	B6a	B6B	B6c	B7a	B7b	B7c	B8a	B8b	B8c
Fines split to:	1/8	1/8	1/8									
Order Diptera												
Diptera Unid A							3				1	
Diptera L					1		20		4			1
Family Ceratopogonidae												
Bezzia sp	4											
Family Chironomidae												
Chironomidae A	1	3	1	1		3	1	2	3			1
Chironomidae P	26	49	165	8	2	3	9	4	15			1
Chironomidae L	214	96	170	1	2	1	5	5	2	24	15	2
Sub family Orthocladiinae												
Brillia sp												
Cardiocladius sp	3	8	7					1	1			
Corynoneura sp											2	
Cricotopus sp	1063	1073	1725	26	1	7	9	5	6	20	229	1
Eukiefferiella sp	36	79	77	3					1		4	
Euryhapsis sp							4	2	1		8	
Synorthocladius sp										2		
Thienemanniella sp			1	1							2	
Sub family Diansinae												
Diamesa sp	1	8	7	2		1	113	106	93		5	
Sub Family Chironominae												
Micropsectra sp				1	1	1				5	77	
Phaenopsectra sp												
Sub family Tanypodinae												
Thienemannimyia	1											
Family Dolichopodidae												
Dolichopus sp												
Family Empididae												
Chelifera sp				1						4	18	
Family Psychodidae												
Pericoma sp			3	4		2	71	74	37	1	7	3
Family Simuliidae												
Cnephia sp L												
Prosimulium sp L							6	1			1	
Prosimulium sp P				1	1	1						
Simulium sp L							8	4				1
Simulium sp P												
Family Tipulidae												
Dicranota sp	2		1	3		1	4	6	1	5	11	5
Gonomyia sp									1			
Hesperoconopa sp												
Hexatoma sp		1										1
Ormosia sp												
Rhabdomastix sp	1						5		2			
Order Collembola												
Hypogastrura sp							1		1			
Isotomurus sp							5	5	2		1	
Order Coleoptera												
Family Curculionidae A							2					
Family Dytiscidae												
Hydrovatus sp A				1								
Family Psephenidae						1	1		1			
Psephenus sp L												
Staphylinidae L												
Order Homoptera												
Family Aphididae				54	10	32	153	14	28	1	4	11
Family Cicadellidae							1	1	1			2
Order Hymenoptera A						1	2		2		1	1

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APPENDIX D

BENTHIC INVERTEBRATE DATA, BREWERY CREEK 2005

	B5a	B5b	B5c	B6a	B6B	B6c	B7a	B7b	B7c	B8a	B8b	B8c
Fines split to:	1/8	1/8	1/8									
Order Lepidoptera L				1			1		1			
Order Thysanoptera							10		3		2	
Class Arachnida												
Order Aranaea						1	4	1	1		1	
Order Hydracarina												
Hydracarina Unid J												
Lebertia sp					1							
Sperchon sp	1		18			1						
Torrenicola sp											1	
Unioncola sp	24		32	1	1	3	2	1				
Wandesia sp						1						
Oribatei							7	1	4		1	1
"thorny oribatei"												
Class Crustacea												
Sub class Copepoda												
Calanoida												
Cyclopoida				1		2	1				1	
Harpacticoida								3			6	
Order Cladocera												
Bosmina longirostris												
Chydorus sphaericus												
Sub class Ostracoda												
Candona sp						2					2	
PHYLUM ANNELIDA												
Class Oligochaeta												
Family Enchytraeidae					15	1	5	35	1	6	18	1
Family Lumbriculidae												
Kincaidiana hexatheca						3	1				3	1
Family Tubificidae	9	8		219	1	41	38		23	6	5	6
PHYLUM MOLLUSCA												
Class Gastropoda												
Pupillidae												
PHYLUM NEMATODA		8	18	2		3	1		1		22	1
PHYLUM PLATYHELMINTHES								2				
PHYLUM COELENTERATA												
Hydra sp												
Fish												
Cottus cognatus			1									
TOTAL PER SAMPLE:	1435	1387	2319	581	96	330	534	312	263	88	526	51
TOTAL PER SITE:	5141			1007			1109			665		
TAXONOMIC RICHNESS/SAMPLE	21	18	24	30	19	34	37	24	30	14	36	21
TAXONOMIC RICHNESS PER SITE:	32			44			42			44		

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APPENDIX D

BENTHIC INVERTEBRATE DATA, BREWERY CREEK 2005

	B9a	B9b	B9c	Totals
Fines split to:			1/4	
PHYLUM ARTHROPODA				
Class Insecta				
Order Ephemeroptera				
Ephemeroptera A				1
Family Siphonuridae				
Ameletus sp				64
Family Baetidae				
Baetis sp	2	2	12	119
Family Heptageniidae				
Cinygmula sp		5		207
Epeorus (Iron) sp		5	1	99
Heptagenia sp				
Rhithrogena sp				2
Family Ephemerellidae				
Drunella doddsi				2
Drunella flavilinea				4
Drunella grandis				39
Ephemerellidae J				11
Order Plecoptera				
Family Capniidae				
Capnia sp	2			394
Family Perlidae				
Claasenia sabulosa				
Isoperla sp				2
Family Perlodidae				
Kogotus sp				
Megarcys sp				16
Skwala curvata				
Skwala paralella				7
Family Leuctridae				
Leuctra sp				
Family Nemouridae				
Nemoura sp	145	170	814	1129
Zapada sp			4	237
Family Pteronarcyidae				
Pteronarcys sp				
Family Chloroperlidae				
Sweltsa sp group		1		467
Family Taeniopterygidae				
Taenionema sp				52
Order Trichoptera				
Trichoptera Unid Juv				
				9
Trichoptera P				
Family Hydropsychidae				
Arctopsyche sp				
Family Brachycentridae				
Brachycentrus sp				
Family Limnephilidae				
Ecclesomyia sp				48
Grensia sp				
Family Glossomatidae				
Glossosoma sp				1
Family Hydropsychidae				
Hydropsychidae Juv				1
Family Hydroptilidae				
Hydroptila sp				
Hydroptilidae Juv				1
Family Rhyacophilidae				
Rhyacophilidae Juv				8
Rhyacophila angelita				
Rhyacophila (acropedes or vao)				1

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APPENDIX D

BENTHIC INVERTEBRATE DATA, BREWERY CREEK 2005

	B9a	B9b	B9c	Totals
Fines split to:			1/4	
Order Diptera				
Diptera Unid A	1		2	8
Diptera L		1		31
Family Ceratopogonidae				
Bezzia sp				9
Family Chironomidae				
Chironomidae A	2	1		29
Chironomidae P	13	29	162	577
Chironomidae L	22	10	11	658
Sub family Orthocladiinae				
Brillia sp				4
Cardiocladius sp			4	45
Corynoneura sp				3
Cricotopus sp	12	9	31	4451
Eukiefferiella sp		1	51	272
Euryhopsis sp				25
Synorthocladius sp			1	34
Thienemanniella sp				9
Sub family Diansinae				
Diamesa sp		1	4	452
Sub Family Chironominae				
Micropsectra sp	1			134
Phaenopsectra sp				1
Sub family Tanypodinae				
Thienemannimyia				2
Family Dolichopodidae				
Dolichopus sp			1	1
Family Empididae				
Chelifera sp				48
Family Psychodidae				
Pericoma sp				268
Family Simuliidae				
Cnephia sp L				7
Prosimulium sp L				15
Prosimulium sp P		2		6
Simulium sp L		1	12	167
Simulium sp P				1
Family Tipulidae				
Dicranota sp	17	9	9	112
Gonomyia sp				1
Hesperoconopa sp				8
Hexatoma sp				2
Ormosia sp				1
Rhabdomastix sp				8
Order Collembola				
Hypogastrura sp				2
Isotomurus sp				15
Order Coleoptera				
Family Curculionidae A				2
Family Dytiscidae				
Hydrovatus sp A				2
Family Psephenidae				3
Psephenus sp L				1
Staphylinidae L				1
Order Homoptera				
Family Aphididae	4	7	41	1934
Family Cicadellidae				6
Order Hymenoptera A		1	1	10

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APPENDIX D

BENTHIC INVERTEBRATE DATA, BREWERY CREEK 2005

	B9a	B9b	B9c	Totals
Fines split to:			1/4	
Order Lepidoptera L		1		4
Order Thysanoptera				15
Class Arachnida				
Order Aranaea			1	11
Order Hydracarina				
Hydracarina Unid J				
Lebertia sp				2
Sperchon sp				21
Torrenticola sp				1
Unioncola sp				79
Wandesia sp				1
Oribatei				14
"thorny oribatel"				
Class Crustacea				
Sub class Copepoda				
Calanoida				
Cyclopoida	5	5	1	20
Harpacticoida	10	12	2	42
Order Cladocera				
Bosmina longirostris				1
Chydorus sphaericus				1
Sub class Ostracoda				
Candona sp				4
PHYLUM ANNELIDA				
Class Oligochaeta				
Family Enchytraeidae	5	146	123	3773
Family Lumbriculidae				
Kincaidiana hexatheca				20
Family Tubificidae	1		12	640
PHYLUM MOLLUSCA				
Class Gastropoda				
Pupillidae				1
PHYLUM NEMATODA	10	22	103	236
PHYLUM PLATYHELMINTHES				2
PHYLUM COELENTERATA				
Hydra sp				4
Fish				
Cottus cognatus				1
TOTAL PER SAMPLE:	252	441	1403	17178
TOTAL PER SITE:	2096			
TAXONOMIC RICHNESS/SAMPLE	16	22	23	87
TAXONOMIC RICHNESS PER SITE:	31			