TAMERLANE PINE POINT PROJECT

Water Quality & Stream Assessment Baseline Studies









Tamerlane Ventures Inc.

TAMERLANE PINE POINT PROJECT ENVIRONMENTAL BASELINE STUDIES WATER QUALITY AND STREAM ASSESSMENT SEPTEMBER 2005

1740149

November 2005



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1.0 INTRODUCTION

EBA Engineering Consultants Ltd. (EBA) was retained by Tamerlane Ventures Inc. (Tamerlane) in September, 2005 to conduct a preliminary surface water quality sampling program and fish habitat assessment of Buffalo River and Twin Creek, the two primary streams flowing though Tamerlane's Pine Point project area, located on the south shore of Great Slave Lake, NWT. The following data report presents the results of this preliminary field program.

2.0 METHODOLOGY

The following is a description of the methodologies employed for sample site selection, stream biophysical sampling, and water quality sampling for field studies conducted in the Pine Point study area in September 2005. This field program was conducted by Tim Abercrombie, M.Sc., of EBA and Tom Unka of Fort Resolution.

2.1 WATER QUALITY SAMPLING

Water quality samples were collected for standard analytical parameters including dissolved metals, total metals, nutrients, pH, conductivity, alkalinity, hardness, total dissolved solids, and. All bottles were "conditioned" before sampling by rinsing the containers three times with water at each sampling site before drawing the sample. Sampling was conducted with the sampling personnel facing upstream (or into the wind on the lake) to prevent possible contamination of the sample with sediment. Nutrient samples were preserved in the field with sulphuric acid, and total metals samples were preserved in the field with nitric acid. All samples were transported in portable coolers with ice-packs during transport and kept outside while in camp. Fourteen water sampling sites were chosen (Figure 1), in addition to a field blank, a trip blank and two duplicate samples.

Field measurements taken at each site also included: pH, dissolved oxygen (% saturation and mg/L), temperature (°C), and conductivity (μ S/cm). Photographs of each site were taken.



2.1.1 Selection of Water Quality Sample Sites

Water quality sampling sites were selected and located with GPS to gain an understanding of prevailing water quality conditions in various water bodies throughout the study area and the former Pine Point mine site. Sampling sites were located in Buffalo River and Twin Creek both upstream and downstream of the highway. In Buffalo River, sites upstream and downstream of the study area were also selected. Sampling sites were also selected where both the Buffalo River and Twin Creek flow into Great Slave Lake. Several other sites were chosen on Great Slave Lake. A number of tailings ponds and/or flooded open pits were also sampled. Figure 1 shows the locations of water quality sampling sites. In addition, duplicate samples were collected at Water Station (S) 11 on Twin Creek and at Station (S) 3, on Buffalo River.

2.2 STREAM ASSESSMENT SAMPLING

Stream biophysical sampling consisted primarily of fish habitat assessment. Sampling for fish presence was not conducted. The fish habitat assessment followed the methodology of the Department of Fisheries and Oceans (DFO)/BC Ministry of Environment, Lands and Parks (MELP) Stream Survey Field Guide (1989). Stream survey forms were completed for all sample sites.

Measurements taken at each site included pH, dissolved oxygen (% saturation and mg/L), temperature (°C), and conductivity (μ S/cm). Photographs were taken at all sampling sites. Water quality meters (pH: Hanna PHEP3, DO/ Conductivity/ Temp: YSI 85) were calibrated using reference solutions prior to the start of fieldwork.

2.2.1 Selection of Stream Sample Sites

Sampled stream sites were selected and located with GPS based on a review of Quick bird satellite imagery and available maps. The sampling program concentrated on the primary streams located in the immediate vicinity of the Tamerlane Pine Point Project area, that flow into Great Slave Lake and, those that were most likely fish-bearing streams. While in the field, additional/different sampling sites were selected based on their potential suitability for fish habitat and accessibility. Figure 1 presents the locations of the stream sample sites.



3.0 RESULTS

The results of the September 2005 water quality test program and stream biophysical habitat surveys are presented in this section. The locations of all sites assessed are shown in Figure 1. A complete set of site photos presented sequentially is provided in the Photograph section of this report. Site vegetation ecosystem descriptions provided are derived from site-specific determinations from this aquatic resources study.

3.1 WATER QUALITY ANALYSIS

A summary of the water quality analytical results is presented in Appendix A. The results are compared against the criteria outlined in the 1999 Canadian Council of Ministers of Environment (CCME) Canadian Environmental Quality Guideline (CEQG) (CCME 1999); and the B.C. Approved and Working Water Quality Guideline (AWWQG) (BC 1998) criteria. The BC guideline values address a number of water quality parameters not covered by the federal CEQG and provide a perspective relative to some other important water quality criteria for fish and aquatic life. The CEQG criteria for total aluminum and iron are 0.005 - 0.1 mg/L and 0.3 mg/L, respectively. The CEQG criteria for total copper, lead and zinc are 0.002 - 0.004 mg/L, 0.001 - 0.007 mg/L, 0.03 mg/L respectively.

The water quality for all sites sampled along Twin Creek, Buffalo River and in Great Slave Lake, with exception of S02 and S14 in Buffalo River were typical of natural background values for this area of the NWT. Concentrations of most parameters tested were below existing federal (CEQG) guideline criteria and laboratory detection limits.

The highest total aluminum concentration recorded was 7.67 mg/L in Station 2 in Buffalo River. All three stations in Great Slave Lake exhibited total aluminum values that exceeded existing criteria (1.90, 1.76 and 1.63 mg/L). Indicating that the water in Great Slave Lake likely has naturally elevated background aluminum levels. Aluminum and Barium are typically associated with limestone, dolomite, sandstones and shales, which occur in the Pine Point area. Aluminum is also the most abundant metallic element present in the earth's crust.



The highest total iron concentration recorded was 5.9 mg/L at the same station (2) in Buffalo River. Naturally elevated iron levels are commonly linked to the presence of mafic minerals, which also occur throughout this region.

Metals in water samples taken from the Slave River, Little Buffalo River and Great Slave Lake (Evans, Lockhart, and Klaverkamp, 1998) were comparable to those samples taken from Buffalo River, Twin Creek and Great Slave Lake found in this study (0.00186 - 0.0332 mg/L total zinc, 0.00015 - 0.0013 mg/L total lead, 0.0013 - 0.0054 mg/L total copper and 0.35 - 10.11 mg/L total iron).

Calcium, magnesium and water hardness, are not presently included in the federal guidelines. However, since they represent important water quality parameters for fish and other aquatic resources, to provide a perspective, comparisons were made with BC provincial (AWWQC) limits for these parameters. Using this comparison, the BC calcium limit of 4-8 mg/L was exceeded at every site. High levels of calcium and magnesium can be attributed to the geological conditions of the Pine Point area consisting of limestone, dolomite, sandstones and shales.

Water hardness is generally due to the presence of calcium and magnesium in water. High background levels of calcium and magnesium typically produce high values in water hardness. General guidelines for classification of waters are: 0 to 60 mg/L of calcium carbonate $CaCO_3$ is classified as soft; 61 to 120 mg/L as moderately hard; 121 to 180 mg/L as hard; and more than 180 mg/L as very hard.

Boron concentrations are typically linear with the weathering of calcium, which is likely occurring in the Pine Point area. Boron levels are additionally elevated in the presence of bore holes, when bore holes allow ground water to be discharged to the surface. This was observed to have has occurred in association with some bore holes at the former Pine Point Mine.

3.1.1 Buffalo River Sites

Four water quality Stations (WS) were selected and sampled in Buffalo River: WS01, (Photographs 20-22), WS02 (Photograph 17), WS03 (Photograph 10-11) and WS14 (Photographs 12-13).



At Station WS01, values of 0.31 mg/L dissolved aluminum, 0.059 mg/L dissolved barium, 2.30 mg/L dissolved iron, 6.66 mg/L total aluminum, 0.117 mg/L total barium, and 5.76 mg/L total iron were recorded. Station WS01 exceeded CEQG water quality guidelines for aluminum, copper, and iron.

At Station WS02 values of 0.039 mg/L dissolved barium, 0.079 mg/L dissolved iron, 7.67 mg/L total aluminum, 0.103 mg/L total titanium, and 5.9 mg/L total iron were recorded. Station WS02 exceeded CEQG water quality guidelines for aluminum, copper and iron.

At Station WS03 values of 0.042 mg/L dissolved barium, 2.96 mg/L total aluminum, 2.85 mg/L total iron was recorded. Station WS03 exceeded CEQG water quality guidelines for aluminum and iron.

At Station WS14 values of 0.37 mg/L dissolved aluminum, 0.063 mg/L dissolved barium, 7.01 mg/L total aluminium, 0.116 mg/L total barium, were recorded. Station WS14 exceeded CEQG water quality guidelines for aluminum, copper, and iron.

Conductivities were generally around 250 μ S/cm in Buffalo River stations. Water hardness (CaCO₃) at the three Twin Creek Buffalo River stations ranged between 218 and 226 mg/L.

3.1.2 Twin Creek Sites

Three water quality stations were selected and sampled in Twin Creek: WS11 (Photograph 27), WS12 (Photograph 30), and WS15 (Photograph 29).

At Station WS11 values of 0.027 mg/L dissolved barium, 0.29 mg/L total barium, and 0.029 mg/L total iron were recorded.

At Station WS12 values of 0.028 mg/L dissolved barium, 0.030 mg/L dissolved iron, 0.29 mg/L total barium, and 0.038 mg/L total iron were recorded.



At Station WS15 values of 0.025 mg/L dissolved barium, and 0.026 mg/L total barium were recorded.

Conductivities were generally above 400 μ S/cm at Twin Creek stations. Water hardness (CaCO₃) at the three Twin Creek stations ranged between 218 and 226 mg/L.

3.1.3 Great Slave Lake Sites

Three water quality stations were selected and sampled in Great Slave Lake: WS10 (Photograph 37), WS13 (Photograph 4), and WS08 (Photograph 3).

At Station WS10, values of 0.043 mg/L dissolved barium, and 1.90 mg/L total aluminum were recorded. Station WS10 exceeded CEQG water quality guidelines for aluminum and zinc.

At Station WS13, values of 0.02 mg/L dissolved aluminum, 1.76 mg/L total aluminum, and 0.042 mg/L total titanium were recorded. Station WS13 exceeded CEQG water quality guidelines for aluminum and iron.

At Station WS08, values of 0.043 mg/L dissolved barium, 1.63 mg/L total aluminum, and 1.20 mg/L total iron were recorded. Station WS08 exceeded CEQG water quality guidelines for aluminum, and iron.

Conductivities were generally around 250 μ S/cm in Great Slave Lake stations. Water hardness (CaCO₃) at the three Great Slave stations ranged between 100 and 110 mg/L

3.1.4 Abandoned Pine Point Mine Works

Surface water was sampled from three abandoned mine pit lakes: WS04 (Photograph 5), WS05 (Photograph 6), and WS06 (Photograph 7), and the former Pine Point Mine Tailings Pond – WS07 (Photograph 8).

At Station WS04, values of 0.51 mg/L dissolved boron, 0.39 mg/L total boron, a conductivity of 2,820 μ S/cm, and a hardness (CaCO3) of 1,700 mg/L.



At Station WS05, values of 0.20 mg/L dissolved boron, 1.12 mg/L total iron were recorded. Conductivity of 1950 μ S/cm, and hardness (CaCO3) of 1150 mg/L were recorded. Station 5 exceeded CEQG water quality guidelines for iron.

At Station WS06, values of 0.040 mg/L dissolved barium, 0.069 mg/L dissolved zinc, conductivity and hardness (CaCO₃) levels were lower than the values recorded at the other abandoned mine pits lakes (380 μ S/cm, 194 mg/L, respectively). Values of 0.19 mg/L total aluminum, and 0.043 mg/L total barium were recorded. Station WS06 exceeded CEQG water quality guidelines for aluminum and zinc.

At Station WS07 (the former Pine Point tailings pond), values of 0.02 mg/L dissolved lead, 1.14 mg/L dissolved zinc, 0.034 mg/L total lead, 1.11 mg/L total zinc, pH of 8.3, conductivity of 828μ S/cm, and hardness of 480 mg/L were recorded. Station WS07 exceeded CEQG water quality guidelines for copper, lead, and zinc.

Total water hardness (CaCO3) was elevated at Stations 4, 5 and 7: 1700 mg/L, with water hardness values of 1150 mg/L, and 480 mg/L respectively.

3.2 STREAM ASSESMENT SITES

The stream site biophysical data for each site assessed in both Twin Creek and Buffalo River are summarized in Table 1. The complete sets of stream habitat field data for these sites are presented in Appendix A. Photos are provided in the Photograph section of the report.

3.2.1 Buffalo River

Buffalo River is a large river that originates from Buffalo Lake and receives drainage from many other small lakes and wetlands upstream (south) of the current study area and northward en route to Great Slave Lake. The overall length of Buffalo River is approximately 155 km. According to satellite imagery, maps and onsite field studies, the stream channel is not less than 20 m across at any point. Water at all stations was flowing strongly and at times was characterized by rapids. Buffalo River water flows year-round with higher levels of flow occurring during the annual spring melt. Due to the wide, fast flowing, turbid water, river widths were estimated and the nature of river bed material was judged



from the rivers edge. The presence of aquatic insects was observed in many locations but no fish were observed at any location due to the highly turbid water.

3.2.1.1 Fish Habitat

Although no fish sampling was conducted in Buffalo River, several species are known to be common in Buffalo River. Inconnu (*Stenodus leucichthys*), whitefish (*Coregonus clupeaformis*), northern pike (*Esox lucius*), pickerel (*Stizostedion vitreum*) and burbot (*Lota lota*) (Evans, Lockhart and Klaverkamp, 1998).

Inconnu typically spawn in late summer or early autumn in rivers but the location of spawning grounds are not known. There are known migrations of inconnu from Great Slave Lake up the Buffalo River in the fall (Scott and Crossman, 1973).

Whitefish, spawn in the early fall. The time varies from year to year, even in the same lake. Spawning usually occurs in shallow water at depths less than 7.6 m. It often takes place over a hard or stoney bottom but sometimes over sand (Scott and Crossman, 1973).

Northern pike is a spring spawner and spawning takes place immediately after ice melts in April to early May when water temperatures fall between 4.4-11.1 °C. Pike typically spawn on heavily vegetated floodplains of rivers, marshes, and bays of larger lakes in water no deeper than 18 cm. In Canada, the habitat of the pike is usually clear, warm, slow, meandering, heavily vegetated rivers or warm weedy bays of lakes. They occur in a wide range of habitat over the whole of their distribution (Scott and Crossman, 1973).

Pickerel, or Walleye spawn in the spring or early summer depending on latitude and water temperature. Normally spawning begins shortly after ice- break up in lakes at water temperatures between 6.7-8.9 °C. Spawning grounds are the rocky areas in white water below impassable falls and dams in rivers, or boulder to coarse gravel shoals of lakes. Large streams of rivers, providing they are deep or turbid enough to provide shelter in daylight, are suitable habitat (Scott and Crossman, 1973).

Burbot spawn in midwinter under ice, principally from January to March. Burbot usually spawn in water 0.3-1.5 m deep over gravel or sand in shallow bays or gravel shoals. In northern Canada burbot are present in large cool rivers. Summer habitat is often in the river



channels and young -of -the year and yearling burbot are frequently found along rocky shores and sometimes in weedy areas of tributary streams (Scott and Crossman, 1973).

3.2.1.2 BRS1

Buffalo River Station 1 (BRS1) was located approximately 100 m upstream of the road crossing (Highway 5 from Hay River to Fort Resolution) a large clear span bridge that crosses the Buffalo River. No sedimentation or erosional issues or other disturbance from the road crossing to the river were noted at the survey site. Buffalo River likely receives minimal runoff from the roadbed in this area. Water volume at this station was fast-flowing. A 12 m high bank was present on the outside corner of the meander. There were several small tributary inputs to the Buffalo River approximately 25 m upstream of the sample site. The riparian vegetation in this area consists primarily of Riparian Shrubland and deciduous forest (cottongrass and shrubs noted) (Photographs 9-11).

The river at Station 1 was characterized by a wide, low-gradient channel, with small and large gravels dominating the bed material. The river banks consisted of gravel and cobble with willow vegetation cover further up. Approximately 5% of the wetted surface was accounted for by cover elements, consisting of boulders and large organic debris.

This area of the stream likely provides good habitat for inconnu, pickerel, pike, burbot and whitefish due to the deep flowing turbid water with a gravel/ cobble/ boulder bottom.

The physical water quality parameters measured in the field indicated that the water quality was suitable for aquatic life (pH = 8.57, DO = 10.27 mg/L, Temp. = 9.4 °C, Cond. = 408.2 μ S/cm). No sedimentation or other disturbance to the river was noted at the sampling site.

3.2.1.3 BRS2

Buffalo River Station 2 (BRS2) was the station located furthest downstream that was accessibly by ATV. The river at this station was fast-flowing. A 6 m high bank was present on the outside corner of the meander. At this station, there was a lowland back channel area with several small sulfurous ponds that likely becomes flooded at freshet. The riparian vegetation in this area consists primarily of Riparian Shrubland (willow) and mixed deciduous and evergreen forest (Photographs 12-14).



The river at Station 2 was characterized by a wide low-gradient channel, with gravels dominating the bed material in addition to some fines and gravels. The bank consisted of gravel and fines with grass low land and willow vegetation further up. None of the wetted surface was accounted for by cover elements.

This area of the stream would provide good habitat for inconnu, pickerel, pike, burbot and whitefish due to the deep flowing turbid water with a gravel/ cobble/ boulder bottom.

The physical water quality parameters measured in the field indicated that the water quality was suitable for aquatic life (pH = 8.40, DO = 10.44 mg/L, Temp. = 9.7 °C, Cond. = 241.1 μ S/cm). No sedimentation or other disturbance to the river was noted at the sampling site.

3.2.1.4 BRS3

Buffalo River Station 3 (BRS3) was located upstream of BRS2 and accessed by ATV. The river at this station was fast-flowing. A 20 m high bank was present on the west side of the river, with evident erosion. On the east side of the channel, a lowland flood plain covered in dense willow thicket was observed. The riparian vegetation in this area consists primarily of Riparian Shrubland (willow) and mixed deciduous and evergreen forest (Photographs 15 -16).

The river at Station 3 was characterized by a wide low-gradient channel, with silt and small gravel dominating the bed material. The river bank consisted of gravel and fines on the east side with grass and willow vegetation on the west side. Approximately 2% of the wetted surface was accounted for by cover elements consisting entirely of boulders.

This area of the stream would likely provide good habitat for inconnu, pickerel, pike, burbot and whitefish due to the deep flowing turbid water with a gravel/ cobble/ boulder bottom.

The physical water quality parameters measured in the field indicated that the water quality was suitable for aquatic life (pH = 7.92, DO = 10.27 mg/L, Temp. = 9.9 °C, Cond. = 222.7 μ S/cm).



3.2.1.5 BRS4

Buffalo River Station 4 (BRS4) was located upstream of BRS3 and accessed by ATV. The river at this station was fast-flowing. Three metre-high banks were present on both sides of the channel, with no indication of erosion evident. On both sides of the channel, a lowland flood plain covered in dense willow thicket was observed. The riparian vegetation in this area consists primarily of Riparian Shrubland (willow) and mixed deciduous and evergreen forest (Photographs 17-19).

The river at Station 4 was characterized by a wide low-gradient channel, with small gravel dominating the bed material. The bank consisted of gravel and fines, which became vegetated with grass and willow vegetation approximately 2 meters from the waters edge. Approximately 2% of the wetted surface was accounted for by cover elements consisting entirely of boulders.

This area of the stream would likely provide good habitat for inconnu, pickerel, pike, burbot and whitefish due to the deep flowing turbid water with a gravel/ cobble/ boulder bottom. A freshwater mussel shell (Family *Unionidae*) was noted on the riverbank. Freshwater mussels occupy all aquatic habitats, but reach maximum richness and abundance in large rivers, such as Buffalo River. Mussels serve as indicators of good water quality. Mussel communities are intimately associated with fish communities, since mussels are parasitic on fishes during their larval stage.

The physical water quality parameters measured in the field indicated that the water quality was suitable for aquatic life (pH = 8.21, DO = 10.91 mg/L, Temp. = 9.9 °C, Cond. = 245.5 μ S/cm).

3.2.1.6 BRS5

Buffalo River Station 5 (BRS5) was located upstream of BRS4 and accessed by ATV. The river at this station was fast-flowing. Four metre-high banks were present on the east side of the channel, on the outside of the meander. A lowland/ wetland area was present on the west side, and three moose where observed there. Approximately 100 m downstream from BRS5 a small tributary stream was observed flowing into Buffalo River and leaving a sulphurous residue on the rock surfaces. A strong sulphurous odour was noted at this station. The riparian vegetation in this area consists primarily of Riparian Shrubland (willow) and mixed deciduous and evergreen forest (Photographs 20-22).



The river at Station 5 was characterized a wide low-gradient channel, with small gravel dominating the bed material. The bank consisted of gravel and fines. Above the bank vegetation consisted of grass and willow vegetation approximately 2 meters from the waters edge. None of the wetted surface was accounted for by cover elements.

This area of the stream would likely provide good habitat for inconnu, pickerel, pike, burbot and whitefish due to the deep flowing turbid water with a gravel/ cobble/ boulder bottom.

The physical water quality parameters measured in the field indicated that the water quality was suitable for aquatic life (pH = 7.01, DO = 10.86 mg/L, Temp. = 9.5 °C, Cond. = 233.2 μ S/cm).

3.2.1.7 BRS6

Buffalo River Station 6 (BRS6) at the river mouth on Great Slave Lake and accessed by boat. the river at this station was slow-flowing. Low, two metre-high banks were present on both sides of the channel. A small island was present within the river mouth. Several small trappers cabins were present near the river mouth. The riparian vegetation in this area consisted primarily of Riparian Shrubland (willow) and mixed deciduous and evergreen forest (Photographs 23-25).

The river at Station 6 was characterized by a wide low-gradient channel, with small cobble dominating the bed material. The bank consisted of cobble and gravel. Above the bank vegetation consisted of grass and willow. Approximately 50% of the wetted surface was accounted for by cover elements consisting of deep pools.

This area of the stream would likely provide good habitat for inconnu, pickerel, pike, burbot and whitefish due to the deep flowing turbid water with a gravel/ cobble/ boulder bottom. All fish migrating up stream to spawn would pass this point.

The physical water quality parameters measured in the field indicated that the water quality was suitable for aquatic life (pH = 8.01, DO = 9.82 mg/L, Temp. = 8.5 °C, Cond. = 252.8 μ S/cm).



3.2.2 Twin Creek

Twin Creek is a small stream that drains several small lakes and wetlands to the south of the Tamerlake Pine Point project area northward into Great Slave Lake. The overall length of Twin Creek is approximately 45 km. According to satellite imagery, maps and onsite field studies, the stream channel is often undefined and travels through sphagnum bogs. Twin Creek is expected to have seasonal water flow with more flow during spring melt. Aquatic insects were observed in many locations but no fish were observed in any location.

3.2.2.1 Fish Habitat

Although no fish sampling was conducted in Twin Creek, several species are known to be common in the area and are typically found in habitats similar to Twin Creek. White sucker (Catostomus commersoni), longnose sucker (Catostomus catostomus), northern pike (Esox lucius), and brook stickleback (Culaea iconstans)

White suckers spawn in the spring, usually from early May to early June. Adults usually migrate from lakes into gravelly streams when stream temperatures first reach 10°C, but they are also known to spawn on lake margins, or quiet areas in the mouths of blocked streams. Spawning sites are usually in shallow water with a gravel bottom but they may spawn even in rapids (Scott and Crossman, 1973).

Longnose suckers spawn in the spring in streams where available, but otherwise in shallow areas of lakes. They enter spawning streams as soon as stream temperature exceeds 5°C usually in mid-April to mid-May. The spawning run of this sucker begins and reaches a peak several days before the run of white suckers in the same stream. Spawning often takes place in stream water 15 - 30 cm deep, with a current from 0.3 - 0.46 m/s with a bottom of gravel 5 - 10 cm in diameter (Scott and Crossman, 1973).

Northern pike is a spring spawner and spawning takes place immediately after ice melts in April to early May when water temperatures are 4.4-11.1 °C. Pike spawn on heavily vegetated floodplains of rivers, marshes, and bays of larger lakes in water no deeper than 18 cm (Scott and Crossman, 1973).



The brook stickleback spawns in shallow water from late April to July depending upon the water temperature, and tends to be later in more northerly latitudes. Nests are built of stems of reeds or grass, on or near the stream bottom (Scott and Crossman, 1973).

3.2.2.2 TCS1

Twin Creek Station 1 (TCSI) was located immediately upstream of the road crossing (Highway 5 from Hay River to Fort Resolution) a clear span bridge crosses Twin Creek. No sedimentation or erosional issues or other disturbance from road crossing to the stream was noted at the survey site. Twin Creek likely receives runoff from the roadbed in this area. The bridge footings are well stabilized with riprap. Water volume at this station was considerable but flow was slow and ponding was occurring in nearby areas just downstream. Organic debris was observed deposited 2 metres up the stream bank on the riprap, likely from a beaver dam just downstream (Appendix X, Photograph X). The riparian vegetation in this area consists primarily of Riparian Shrubland (Photographs 26-27).

At this station, the stream channel was observed to be generally straight with a shallow gradient. Fines and small gravel dominate the bed material, while riprap (of anthropogenic origin) cover the banks Approximately 100 % of the wetted surface was accounted for by cover elements, which were dominated by pools and instream vegetation. The stream study site provides good rearing habitat for suckers and northern pike due to the abundance of instream vegetation and boulders. Spawning habitat for stream-spawners, such as suckers would also be good due to the presence of gravels.

The field measurements indicated that water quality at this site was acceptable for aquatic life (pH = 7.89, DO = 5.67 mg/L, Temp. = 6.4°C, Cond. = 418.0 μ S/cm), although dissolved oxygen is low.

3.2.2.3 TCS2

At Twin Creek Station 2 (TCS2), south of the road crossing, the crossing site exhibited a low-gradient channel, with cobble and gravel dominating the bed material (with some fines noted) and vegetated gravel and fines dominating the banks. Approximately 100 % of the wetted surface was accounted for by cover elements, which were dominated by instream vegetation (sedges, cottongrass) overstream vegetation (willow), large organic debris and



boulders. This reach of Twin Creek had varying widths with wetland directly adjacent to the creek and nearby spruce and pine highland (Photograph 28).

The area of the stream could provide good rearing habitat for suckers, northern pike, due to the abundance of in-stream vegetation and boulders. In addition, spawning habitat for white sucker would also likely be present here.

The physical water quality parameters measured in the field indicated that the water quality was suitable for aquatic life (pH = 7.4, DO = 86.0 mg/L, Temp. = 5.3 °C, Cond. = 409.8 μ S/cm). No sedimentation or other disturbance to the stream was noted at the stream site.

3.2.2.4 TCS3

Twin Creek Station 3 (TCS3) was the furthest station south accessible on foot. At the crossing site exhibited a low-gradient channel, with fines and small cobble dominating the bed material and vegetated gravel and fines dominating the banks. Approximately 100 % of the wetted surface was accounted for by cover elements, which were dominated by deep pools and some instream vegetation. This reach of Twin Creek was highly braided amongst wetland while a spruce and pine forest bordered either side (Photograph 29).

This area of the stream could provide good rearing habitat for suckers and stickleback, but insufficient vegetation may discourage northern pike. In addition, spawning habitat for white sucker would also likely be present here.

The physical water quality parameters measured in the field indicated that the water quality was suitable for aquatic life (pH = 7.13, DO = 9.74 mg/L, Temp. = 5.5 °C, Cond. = 408.1 μ S/cm). No sedimentation or other disturbance to the stream was noted at the stream site.

3.2.2.5 TCS4

Twin Creek Station 4 (TCS4) was the furthest station north accessible on foot. At this station the crossing site exhibited a low-gradient channel, with large cobbles, and gravels (and some fines) dominating the bed material and willow vegetated wetland as the banks. Approximately 50% of the wetted surface was accounted for by cover elements, 100% that was dominated by deep pools. This area of Twin Creek had a defined channel meandering



through a willow wetland, bordered on either side by a spruce and pine forest. Immediately downstream of the study site, was a fish barrier constituting of organic debris (possible due to beaver activity) (Photograph 30).

The area of the stream could provide good rearing habitat for suckers, northern pike, due to the abundance of in-stream vegetation and boulders. In addition, spawning habitat for white sucker would also likely be present here.

The physical water quality parameters measured in the field indicated that the water quality was suitable for aquatic life (pH = 8.12, DO = 10.41 mg/L, Temp. = 7.3 °C, Cond. = 428.5 μ S/cm). No sedimentation or other disturbance to the stream was noted at the stream site.

3.2.2.6 TCS5

Twin Creek Station 5 (TCS5) exhibited a low-gradient channel, with fines dominating the bed material and willow vegetated wetland as the banks. Approximately 70 % of the wetted surface was accounted for by cover elements, consisting of deep pools, instream vegetation, some boulders and some large organic debris. This area of Twin Creek had a defined channel meandering through a willow wetland, bordered on either side by a spruce and pine forest. Downstream of the study site, was a fish obstacle constituting of organic debris (possible due to nearby beaver activity) (Photographs 31-33).

The area of the stream could provide good rearing habitat for suckers, northern pike, due to the abundance of in-stream vegetation. Although flow is slow and no bed gravels are present.

The physical water quality parameters measured in the field indicated that the water quality was suitable for aquatic life (pH = 8.03, DO = 8.02 mg/L, Temp. = 7.4 °C, Cond. = 430.0 μ S/cm). No sedimentation or other disturbance to the stream was noted at the stream site.

3.2.2.7 TCS6

Twin Creek Station 6 (TCS6) exhibited a low-gradient channel, with fines dominating the bed material in addition to some gravels and small cobbles. The bank consisted of willow vegetated wetland as the banks. Approximately 60% of the wetted surface was accounted



for by cover elements, consisting of instream vegetation, deep pools, some overstream vegetation and some boulders. This area of Twin Creek had a principal channel with additional side channels meandering through a willow wetland, bordered on either side by a spruce and pine highland. At this site the principle channel was ponding with little to no flow due to a build up of large organic debris (possible due to nearby beaver activity). The dam created a small waterfall (Photograph 34).

This area of the stream would not provide good rearing habitat for suckers, and northern pike, due to a lack of consistent water flow, and bed gravel.

The physical water quality parameters measured in the field indicated that the water quality was suitable for aquatic life (pH = 8.25, DO = 7.57 mg/L, Temp. = 9.9 °C, Cond. = 423.4 μ S/cm). No sedimentation or other disturbance to the stream was noted at the stream site.

3.2.2.8 TCS7

Twin Creek Station 7 (TCS7) exhibited a low to medium gradient channel, with boulders dominating the bed material and some vegetation on the banks. Approximately 100 % of the wetted surface was accounted for by cover elements, consisting primarily of boulders but also instream vegetation, overstream vegetation and deep pools. Approximately 80% of the wetted water consisted of riffles. This reach of Twin Creek was considerably different than more northern stations. The channel was unbraided with no wetland area and closely bordered on either side by a spruce and pine forest (Photograph 35).

This area of the stream would provide ideal rearing habitat for suckers, northern pike, and stickleback, but due to minimal vegetation, not ideal spawning habitat.

The physical water quality parameters measured in the field indicated that the water quality was suitable for aquatic life (pH = 7.88, DO = 9.19 mg/L, Temp. = 7.1 °C, Cond. = 420.5 μ S/cm). No sedimentation or other disturbance to the stream was noted at the stream site.

3.2.2.9 TCS8

Twin Creek Station 8 (TCS8) exhibited a low-gradient channel, with fines dominating the bed material in addition to some gravels and small cobbles. The channel was highly braided



through a willow vegetated wetland which gave way to a spruce and pine forest. Approximately 50% of the wetted surface was accounted for by cover elements, consisting of overstream vegetation and some instream vegetation. This area of Twin Creek had a principal channel with several additional side channels (Photograph 36).

This area of the stream would provide adequate rearing habitat for suckers, and northern pike, due cover elements, and bed gravel.

The physical water quality parameters measured in the field indicated that the water quality was suitable for aquatic life (pH = 7.99, DO = 10.87 mg/L, Temp. = 7.2 °C, Cond. = 420.2 μ S/cm). No sedimentation or other disturbance to the stream was noted at the stream site.

3.2.2.10 TCS9

Twin Creek Station 9 (TCS9) was located at the mouth where Twin Creek drains into Great Slave Lake. The site exhibited a low-gradient wetland that extended well out into the lake. There was no defined channel and the bed material was not identified due to access problems. The channel was highly braided through a vegetated wetland, which gave way to a deciduous forest. From a distance, there appeared to be a percentage of the wetted surface that accounted for by cover elements, including instream and overstream vegetation (Photograph 37).

The mouth of the stream was considered to provide good rearing and spawning habitat for arctic grayling (Thymallus arcticus) and minnows and good rearing habitat for northern pike (Esox lucius) due to the presence of instream and overstream vegetation, fine substrates and low gradient.

The physical water quality parameters measured in the field indicated that the water quality was suitable for aquatic life (pH = 8.07, DO = 10.67 mg/L, Temp. = 9.4 °C, Cond. = 466.9 μ S/cm). No sedimentation or other disturbance to the stream was noted at the stream site.



EBA presents Tamerlane with this Environmental Baseline Study of Water Quality and Stream Assessment for the Tamerlane Pine Point Project. We hope everything is found to be satisfactory. If there any are any questions, the please do not hesitate to contact us.

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7.8

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TABLES



	Twin Creek	Twin Creek	Twin Creek	Twin Creek	Buffalo River										
Site	Station 1	Station 2	Station 3	Station 4	Station 5	Station 6	Station 7	Station 8	Station 9	Station 1	Station 2	Station 3	Station 4	Station 5	Station 6
Date	9/21/2005	9/21/2005	9/21/2005	9/21/2005	9/21/2005	9/21/2005	9/21/2005	9/21/2005	9/22/2005	9/20/2005	9/20/2005	9/20/2005	9/20/2005	9/20/2005	9/22/2005
Average Channel Width (m)	12 00	4 50	33.00	25.00	50.00	50.00	3.00	15.00	0,22,2000	75.00	70.00	150.00	200.00	50.00	204.00
Average Wetted Width (m)	10.00	2.50	29.00	20.00	45.00	44 00	2 00	12.00		60.00	50.00	40.00	60.00	30.00	200.00
Average Maximum Riffle Depth (cm)		37.00	0.00	0.00	0.00	0.00	20.00	70.00		00.00	00.00		00.00	00100	200.00
Average Maximum Pool Depth (cm)	75.00	0.00	50.00	80.00	100.00	100.00	50.00	0.00							
Average Gradient (%)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Pool (%)	100	0	100	100	100	100	20	0		0	0	0	0	0	0
Riffle (%)	0	50	0	0	0	0	80	0		20	10	0	0	0	0
Run (%)	0	50	0	0	0	0	0	100		80	90	70	90	50	100
Other (%)	0	0	0	0	0	0	0	0		0	0	30 (Rapid)	10 (Rapid)	50 (Rapid)	0
Sidechannel (%)	10	0	30	0	0	0	0	0		0	0	0	0	0	0
Debris - Area (%)	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Debris - Stable (%)	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Total Cover (%)	100	100	50	50	70	60	100	50		5	0	2	2	0	50
Deep Pool (%)	100	0	90	100	45	30	5	5		5	0	0	0	0	100
LOD (%)	0	30	0	0	5	5	0	0		2.5	0	0	0	0	0
Boulder (%)	45	10	0	0	10	10	85	85		2.5	0	100	100	0	0
Instream Vegetation (%)	100	60	10	10	40	40	5	20		0	0	0	0	0	0
Overstream Vegetation (%)	0	40	0	0	0	20	5	80		0	0	0	0	0	0
Cutbank (%)	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Crown Closure (%)	0	0	0	0	0	0	20	20	0	0	0	0	0	0	0
Aspect (°)	NW	N	N	N	NW	NW	W	NE	NW	NW	W	N	NW	NW	NW
Bed Material															
Fines (%)	80	10	50	20	100	50	0	30		70	20	30	10	30	0
Small Gravels (%)	20	20	10	10	0	10	0	10		30	60	60	80	70	0
Large Gravels (%)	0	10	10	10	0	10	0	10		10	10	10	10	0	0
Small Cobbles (%)	0	50	30	10	0	10	0	30		0	10	0	0	0	100
Large Cobbles (%)	0	10	0	50	0	20	10	20		0	0	0	0	0	0
Boulders (%)	0	0	0	0	0	0	90	0		0	0	0	0	0	0
Bedrock (%)	0	0	0	0	0	0	0	0		0	0	0	0	0	0
D90 (cm)															
Compaction	L	Н	М	Н	L	L	Н	Н		М	М	М	М	Н	Н
Banks															
Height (m)	1	1	0.5	2	1.5	1.5	3	2		12	6	20	3	4	2
Unstable (%)	0	0	0	0	0	0	33	0		25	0	15	0	38	0
Texture	F (vegegated)	F and G	F (vegegated)		F and G										
Confinement	UC	UC	UC	UC	UC	UC	CO	UC	UC	FC	FC	FC	OC	OC	G
Valley:Channel Ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stage	М	Н	М	М	М	М	М	М	М	Н	Н	Н	Н	М	М
Flood Signs Height (m)	1	1	0.5	2	2	1	1	0		2.5	2.5	3	1	1.5	1
Braided (Y/N)	N	N	Y	Y	Y	Y	N	Y		N	N	N	N	N	Y
Bars (%)	0	0													
Water Quality															
pH	7.89	7.4	7.13	8.12	8.03	8.25	7.88	7.99	8.07	8.57	8.4	7.92	8.21	7.01	8.01
O ₂ (mg/L)	5.76	10.89	9.74	10.4	8.02	7.57	9.19	10.87	10.67	10.27	10.44	10.27	10.91	10.86	9.82
Average Water Temp. (°C)	6.4	5.4	5.6	7.3	7.4	9.9	7.1	7.2	9.4	9.4	9.8	10	9.9	9.5	8.5
Turbidity (cm)	bottom	bottom	bottom	bottom	bottom	bottom	bottom	bottom		15	12	10	10	9	8
Conductivity (µS)	418	409.8	408.1	428.5	430	423.4	420.5	420.2	266.9	208.2	241.1	222.7	245.5	233.2	252.8

 Table 1. Summary of Stream Biophysical Attributes

Notes:

Large Organic Debris - Pieces of wood >20cm in diameter and >2m in length D90 - Intermediate diameter of the substrate particle that is larger than 90% of substrate particles at site. Compaction - Embeddedness of substrate particles (Low, Moderate, High) Texture - Fines, Gravels, Larges (=cobbles, boulders) Confinement: UC - Unconfined, FC - Frequently Confined Stage - Flow stage (Low, Moderate, High, Flood)

FIGURES





Legend

- Buffalo River Stream Assessment
- Twin Creek Stream Assesment
- Water Sampling Stations
- A Beaver Dam
- A Sulphurous Area



Pine Point Project



Pine Point Water Sampling & Stream Assessment Locations

EBA ENGINEERING

November, 2005

Figure 1

1740089_Figure1_Watersampling_stations.mxd

PHOTOGRAPHS







Photo 1 Access to Water Stations and Stream Assessment locations by ATV.



Photo 2 Boat launch at Great Slave Lake.



Photo 3 Water Station 8 Great Slave Lake.



Photo 4 Water Station 13 Great Slave Lake.







Photo 5 Water Station 4 Mine Pit Lake.



Photo 6 Water Station 5 Mine Pit Lake.



Photo 7 Water Station 6 Mine Pit Lake.



Photo 8 Water Station 7 Pine Paint Tailings Pond.







Photo 9 Buffalo River at road crossing near Station 1.



Photo 11 Buffalo River Station 1 and Water Station 3 road crossing downstream.



Photo 10 Buffalo River Station 1 and Water Station 3 looking upstream.



Photo 12 Buffalo River Station 2 and Water Station 14 water turbidity.







Photo 13 Buffalo River Station 2 and Water Station 14 looking downstream.



Photo 15 Buffalo River Station 3 looking upstream.



Photo 14 Buffalo River Station 2 and Water Station 14 lowland area.



Photo 16 Buffalo River Station 3 riparian area.





Photo 17 Buffalo River Station 4 and Water Station 2 cross section.



Photo 18 Buffalo River Station 4 east bank.



Photo 19 Natural sulphurous tributary near Buffalo River Station 4.



Photo 20 Buffalo River Station 5 and Water Station 1 downstream input.





Photo 21 Buffalo River Station 5 and Water Station 1 rapids.



Photo 23 Buffalo River Station 6 cross section.



Photo 22 Buffalo River Station 5 and Water Station 1 shoreline deposit.



Photo 24 Buffalo River Station 6 from Great Slave Lake looking south.







Photo 25 Buffalo River Station 6 from river mouth looking north into lake.



Photo 27 Twin Creek Station 1 and Water Station 11.



Photo 26 Twin Creek at road crossing near station 1.



Photo 28 Twin Creek Station 2.




Photo 29 Twin Creek Station 3 and Water Station 15.



Photo 31 Twin Creek Station 5 pond.



Photo 30 Twin Creek Station 4 and Water Station 12.



Photo 32 Twin Creek Station 5.







Photo 33 Beaver dam in Twin Creek near Station 5.



Photo 34 Twin Creek Station 6.



Photo 35 Twin Creek Station 7.



Photo 36 Twin Creek Station 8.









Photo 37 Twin Creek Station 9 and Water Station 10 river mouth.



APPENDIX

APPENDIX A WATER QUALITY ANALYSIS





		PRELIM	NARY	RESULTS	
EBA ENG CONSULTA ATTN: STEVE MOOF 201-4916 49 STREET YELLOWKNIFE NT >	ANTS LTD RE K1A 2P7		I	DATE: 11-OCT-05 05:29 PM	
Lab Work Order #: Project P.O. #:	L322074	Sampled By:	ТА	Date Received:	23-SEP-05
Job Reference:	1740149				
Comments: L322074 0.45um	4-5,8: The dissolved r filter.	netals bottles have fine	particles. B	Before analysis, the samples were syringe filte	red through a
	DOU Dire SA	JG JOHNSON ctor of Operations, E NDRA WATSON count Manager	dmonton		

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN AUTHORITY OF THE LABORATORY. ANY REMAINING SAMPLES WILL BE DISPOSED OF AFTER 30 DAYS FOLLOWING ANALYSIS. PLEASE CONTACT THE LAB IF YOU REQUIRE ADDITIONAL SAMPLE STORAGE TIME.

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Extracted	Analyzed	By	Batch
L322074-1 STATION 7 Sample Date: 22-SEP-05								
Dissolved Metals - CCME								
Dissolved Trace Metals								
Silver (Ag)	<0.0001	RAMB	0.0001	mg/L		30-SEP-05	MX	R330388
Aluminum (Al)	<0.01		0.01	mg/L		30-SEP-05	MX	R330388
Arsenic (As)	<0.0004		0.0004	mg/L		30-SEP-05	MX	R330388
Boron (B)	<0.05		0.05	mg/L		30-SEP-05	MX	R330388
Barium (Ba)	0.023		0.003	mg/L		30-SEP-05	MX	R330388
Beryllium (Be)	<0.001		0.001	mg/L		30-SEP-05	MX	R330388
Cadmium (Cd)	0.0007		0.0001	mg/L		30-SEP-05	MX	R330388
Cobalt (Co)	<0.002		0.002	mg/L		30-SEP-05	MX	R330388
Chromium (Cr)	<0.005		0.005	mg/L		30-SEP-05	MX	R330388
Copper (Cu)	0.003		0.001	mg/L		30-SEP-05	MX	R330388
Mercury (Hg)	<0.0001		0.0001	mg/L		30-SEP-05	MX	R330388
Lithium (Li)	0.004		0.003	mg/L		30-SEP-05	MX	R330388
Molybdenum (Mo)	< 0.005		0.005	mg/L		30-SEP-05	MX	R330388
	0.003		0.002	mg/∟ ma/l		30-SEP-05		R330388
Leau (PD)	0.0202		0.0001	mg/∟ mg/l		30-SEP-05		R330388
Selenium (Se)	<0.0004		0.0004	mg/L		30-3LF-03		R330300
Tin (Sn)	<0.004		0.0004	mg/L		30-SEP-05	MX	R330388
Titanium (Ti)	<0.05		0.001	mg/L		30-SEP-05	MX	R330388
Thallium (TI)	0.0002		0.001	ma/l		30-SEP-05	MX	R330388
Uranium (U)	0.0001		0.0001	ma/l		30-SEP-05	MX	R330388
Vanadium (V)	<0.001		0.001	ma/L		30-SEP-05	MX	R330388
Zinc (Zn)	1.14		0.002	mg/L		30-SEP-05	MX	R330388
Dissolved Major Metals				0				
Iron (Fe)	0.006		0.005	mg/L		30-SEP-05	HAS	R330338
Manganese (Mn)	0.004		0.001	mg/L		30-SEP-05	HAS	R330338
Total Metals - CCME								
Total Trace Metals								
Silver (Ag)	<0.0004		0.0004	mg/L		30-SEP-05	MX	R330389
Aluminum (Al)	0.05		0.01	mg/L		30-SEP-05	MX	R330389
Arsenic (As)	0.0004		0.0004	mg/L		30-SEP-05	MX	R330389
Boron (B)	<0.05		0.05	mg/L		30-SEP-05	MX	R330389
Ballulli (Ba) Bondlium (Bo)	0.025		0.003	mg/∟		30-3EP-03		R330389
Cadmium (Cd)	<0.001		0.001	mg/L		30-3LF-03		P320369
Cobalt (Co)	<0.0009		0.0002	mg/L		30-SEP-05	MX	R330380
Chromium (Cr)	<0.002		0.002	ma/l		30-SEP-05	MX	R330389
Copper (Cu)	0.007		0.001	ma/L		30-SEP-05	MX	R330389
Mercury (Ha)	<0.0002		0.0002	ma/L		30-SEP-05	MX	R330389
Lithium (Li)	<0.01		0.01	mg/L		30-SEP-05	MX	R330389
Molybdenum (Mo)	<0.005		0.005	mg/L		30-SEP-05	MX	R330389
Nickel (Ni)	0.004		0.002	mg/L		30-SEP-05	MX	R330389
Lead (Pb)	0.0336		0.0001	mg/L		30-SEP-05	MX	R330389
Antimony (Sb)	<0.0004		0.0004	mg/L		30-SEP-05	MX	R330389
Selenium (Se)	<0.0004		0.0004	mg/L		30-SEP-05	MX	R330389
Tin (Sn)	<0.05		0.05	mg/L		30-SEP-05	MX	R330389
Titanium (Ti)	0.003		0.001	mg/L		30-SEP-05	MX	R330389
Thallium (TI)	0.0003		0.0001	mg/L		30-SEP-05	MX	R330389
Uranium (U)	0.0001		0.0001	mg/L		30-SEP-05	MX	R330389
Vanadium (V)	0.002		0.001	mg/L		30-SEP-05	MX	R330389

Sample Details	s/Parameters	Result	Qualifier	D.L.	Units	Extracted	Analyzed	By	Batch
1 222074 4									
L322074-1 Somple Date:	STATION 7								
Sample Date.	22-3EF-03								
Total Met	water als - CCMF								
Total Tr	ace Metals								
i otal i i	Zinc (Zn)	1.11		0.004	mg/L		30-SEP-05	MX	R330389
Total Ma	ajor Metals				•				
	Calcium (Ca)	129		0.5	mg/L		30-SEP-05	HAS	R330341
	Potassium (K)	2.0		0.1	mg/L		30-SEP-05	HAS	R330341
	Magnesium (Mg)	28.7		0.1	mg/L		30-SEP-05	HAS	R330341
	Sodium (Na)	3		1	mg/L		30-SEP-05	HAS	R330341
	Iron (Fe)	0.071		0.005	mg/L		30-SEP-05	HAS	R330341
	Manganese (Min)	0.009		0.001	mg/∟		30-SEP-05	HAS	R330341
	Phosphorus, Total	0.003		0.001	mg/L		07-OCT-05	TL	R332886
	Ammonia-N	0.009		0.005	mg/L		06-OCT-05	KMY	R332343
	Total Organic Carbon	3		1	mg/L		07-OCT-05	ZOW	R332812
Routine V	Vater Analysis - Low Level				č				
	Chloride (Cl)	6		1	mg/L		30-SEP-05	WYA	R330298
	Nitrate+Nitrite-N	<0.006		0.006	mg/L		30-SEP-05	SHC	R330437
	Nitrate-N	<0.006		0.006	mg/L		30-SEP-05	SHC	R330437
	Nitrite-N	<0.002		0.002	mg/L		30-SEP-05	SHC	R330437
	Sulphate (SO4)	410		0.05	mg/L		04-OCT-05	JWU	R329576
pH, Con	ductivity and Total Alkalinity				0				
•	pН	8.3		0.1	pН		30-SEP-05	PTT	R330158
	Conductivity (EC)	828		0.2	uS/cm		30-SEP-05	PTT	R330158
	Bicarbonate (HCO3)	88		5	mg/L		30-SEP-05	PTT	R330158
	Carbonate (CO3)	<5		5	mg/L		30-SEP-05	PTT	R330158
	Hydroxide (OH)	<5		5	mg/L		30-SEP-05	PTT	R330158
	Alkalinity, Total (as CaCO3)	72		5	mg/L		30-SEP-05	PTT	R330158
Ion Bala	Ince Calculation	00.7			0/				
	TDS (Calculated)	96.7			% ma/l		05-0CT-05		
	Hardness (as CaCO3)	480			mg/L		05-0CT-05		
ICP met	als for routine water	400			ing/∟		05 001 05		
	Calcium (Ca)	140		0.5	mg/L		04-OCT-05	EOC	R331376
	Potassium (K)	1.9		0.1	mg/L		04-OCT-05	EOC	R331376
	Magnesium (Mg)	31.6		0.1	mg/L		04-OCT-05	EOC	R331376
	Sodium (Na)	4		1	mg/L		04-OCT-05	EOC	R331376
L322074-2	STATION 13								
Sample Date:	22-SEP-05								
Matrix:	WATER								
Dissolved	Metals - CCME								
Dissolve	ed Trace Metals	-0.0001	DAMB	0.0001	ma/l		20 SED 05		000000
	Aluminum (Al)	<0.0001	RAIVID	0.0001	mg/L		30-SEP-05		R330388
	Arsenic (As)	~0.004		0.01	mg/L		30-SEP-05	MX	R330388
	Boron (B)	<0.05		0.05	ma/l		30-SEP-05	MX	R330388
	Barium (Ba)	0.043		0.003	mg/L		30-SEP-05	MX	R330388
	Beryllium (Be)	<0.001		0.001	mg/L		30-SEP-05	MX	R330388
	Cadmium (Cd)	<0.0001		0.0001	mg/L		30-SEP-05	MX	R330388
	Cobalt (Co)	<0.002		0.002	mg/L		30-SEP-05	MX	R330388
	Chromium (Cr)	<0.005		0.005	mg/L		30-SEP-05	MX	R330388
	Copper (Cu)	0.003		0.001	mg/L		30-SEP-05	MX	R330388

Sample Details/Parameters	Result	Qualifier D.L.	Units	Extracted	Analyzed	By	Batch
Sample Date: 22-SEP-05							
Dissolved Metals - CCME							
Dissolved Trace Metals							
Mercury (Hg)	<0.0001	0.0001	mg/L		30-SEP-05	MX	R330388
Lithium (Li)	0.005	0.003	mg/L		30-SEP-05	MX	R330388
Molybdenum (Mo)	<0.005	0.005	mg/L		30-SEP-05	MX	R330388
Nickel (Ni)	<0.002	0.002	mg/L		30-SEP-05	MX	R330388
Lead (Pb)	<0.0001	0.0001	mg/L		30-SEP-05	MX	R330388
Antimony (Sb)	0.0005	0.0004	mg/L		30-SEP-05	MX	R330388
Selenium (Se)	<0.0004	0.0004	mg/L		30-SEP-05	MX	R330388
Tin (Sn)	<0.05	0.05	mg/L		30-SEP-05	MX	R330388
Litanium (Ti)	0.001	0.001	mg/L		30-SEP-05	MX	R330388
	<0.0001	0.0001	mg/L		30-SEP-05	MX	R330388
Uranium (U)	0.0004	0.0001	mg/L		30-SEP-05		R330388
Vanadium (V) Zino (Zn)	<0.001	0.001	mg/∟		30-SEP-05		R330388
Zinc (Zn)	0.006	0.002	mg/∟		30-3EP-03	MX	R330388
lron (Fe)	0.051	0.005	ma/l		30-SEP-05	нас	P330338
Manganese (Mn)	0.001	0.003	ma/l		30-SEP-05	HAS	R330338
Total Metals - CCME	0.001	0.001	g/ E		00 021 00	11/10	11000000
Total Trace Metals							
Silver (Ag)	<0.0004	0.0004	mg/L		30-SEP-05	MX	R330389
Aluminum (Al)	1.76	0.01	mg/L		30-SEP-05	MX	R330389
Arsenic (As)	0.0010	0.0004	mg/L		30-SEP-05	MX	R330389
Boron (B)	<0.05	0.05	mg/L		30-SEP-05	MX	R330389
Barium (Ba)	0.063	0.003	mg/L		30-SEP-05	MX	R330389
Beryllium (Be)	<0.001	0.001	mg/L		30-SEP-05	MX	R330389
Cadmium (Cd)	<0.0002	0.0002	mg/L		30-SEP-05	MX	R330389
Cobalt (Co)	<0.002	0.002	mg/L		30-SEP-05	MX	R330389
Chromium (Cr)	<0.005	0.005	mg/L		30-SEP-05	MX	R330389
Copper (Cu)	0.003	0.001	mg/L		30-SEP-05	MX	R330389
Mercury (Hg)	<0.0002	0.0002	mg/L		30-SEP-05	MX	R330389
Litnium (Li)	<0.01	0.01	mg/L		30-SEP-05	MX	R330389
Miskel (Nii)	<0.005	0.005	mg/L		30-3EP-03		R330389
I cod (Pb)	0.003	0.002	mg/L		30-3EF-03		R330309
Antimony (Sh)	<0.0009	0.0001	mg/L		30-SEP-05	MX	P330380
Selenium (Se)	0.0004	0.0004	mg/L		30-SEP-05	MX	R330389
Tin (Sn)	<0.05	0.0004	ma/l		30-SEP-05	MX	R330389
Titanium (Ti)	0.042	0.001	ma/L		30-SEP-05	MX	R330389
Thallium (TI)	<0.0001	0.0001	mg/L		30-SEP-05	MX	R330389
Uranium (U)	0.0005	0.0001	mg/L		30-SEP-05	MX	R330389
Vanadium (V)	0.007	0.001	mg/L		30-SEP-05	MX	R330389
Zinc (Zn)	0.007	0.004	mg/L		30-SEP-05	MX	R330389
Total Major Metals							
Calcium (Ca)	30.2	0.5	mg/L		30-SEP-05	HAS	R330341
Potassium (K)	1.7	0.1	mg/L		30-SEP-05	HAS	R330341
Magnesium (Mg)	7.7	0.1	mg/L		30-SEP-05	HAS	R330341
Sodium (Na)	10	1	mg/L		30-SEP-05	HAS	R330341
Iron (Fe)	1.41	0.005	mg/L		30-SEP-05	HAS	R330341
Manganese (Mn)	0.024	0.001	mg/L		30-SEP-05	HAS	R330341
						_	
Phosphorus, Total	0.037	0.001	mg/L		07-OCT-05	TL	R332886

Sample Details	s/Parameters	Result	Qualifier	D.L.	Units	Extracted	Analyzed	By	Batch
1 222074 2									
Sample Date:	22-SEP-05								
Matrix:	WATER								
Matrix.									
	Ammonia-N	0.010		0.005	mg/L		06-OCT-05	KMY	R332343
	Total Organic Carbon	10		1	mg/L		07-OCT-05	zow	R332812
Routine V	Water Analysis - Low Level								
	Chloride (Cl)	12		1	mg/L		30-SEP-05	WYA	R330298
	Nitrate+Nitrite-N	0.008		0.006	mg/L		30-SEP-05	SHC	R330437
	Nitrate-N	<0.006		0.006	mg/L		30-SEP-05	SHC	R330437
	Nitrite-N	0.003		0.002	mg/L		30-SEP-05	SHC	R330437
	Sulphate (SO4)	23.0		0.05	mg/L		04-OCT-05	JWU	R329576
pH, Con		81		0.1	nН		30-SEP-05	PTT	R330158
	Conductivity (EC)	260		0.1	uS/cm		30-SEP-05	PTT	R330158
	Bicarbonate (HCO3)	101		5	mg/L		30-SEP-05	PTT	R330158
	Carbonate (CO3)	<5		5	mg/L		30-SEP-05	PTT	R330158
	Hydroxide (OH)	<5		5	mg/L		30-SEP-05	PTT	R330158
	Alkalinity, Total (as CaCO3)	83		5	mg/L		30-SEP-05	PTT	R330158
Ion Bala	Ince Calculation								
	Ion Balance	102			%		04-OCT-05		
	Lordnoss (as CoCO3)	132			mg/L		04-0CT-05		
ICP met	als for routine water	103			mg/∟		04-001-03		
	Calcium (Ca)	28.9		0.5	mg/L		30-SEP-05	AHY	R330152
	Potassium (K)	1.0		0.1	mg/L		30-SEP-05	AHY	R330152
	Magnesium (Mg)	7.5		0.1	mg/L		30-SEP-05	AHY	R330152
	Sodium (Na)	10		1	mg/L		30-SEP-05	AHY	R330152
L322074-3	STATION 15								
Sample Date:	21-SEP-05								
Matrix:	WATER								
Dissolve	d Metals - CCME								
Dissolv	ed Trace Metals Silver (Ag)	~0.0001	RAMR	0.0001	ma/l		30-SEP-05	МХ	P330388
	Aluminum (Al)	<0.0001	I CANID	0.0001	ma/l		30-SEP-05	MX	R330388
	Arsenic (As)	0.0004		0.0004	mg/L		30-SEP-05	MX	R330388
	Boron (B)	<0.05		0.05	mg/L		30-SEP-05	МХ	R330388
	Barium (Ba)	0.025		0.003	mg/L		30-SEP-05	MX	R330388
	Beryllium (Be)	<0.001		0.001	mg/L		30-SEP-05	MX	R330388
	Cadmium (Cd)	<0.0001		0.0001	mg/L		30-SEP-05	MX	R330388
	Cobalt (Co)	<0.002		0.002	mg/L		30-SEP-05	MX	R330388
	Coppor (Cu)	<0.005		0.005	mg/L		30-SEP-05		R330388
	Mercury (Ha)	<0.001		0.001	ma/L		30-SEP-05	MX	R330388
	Lithium (Li)	0.005		0.003	ma/L		30-SEP-05	MX	R330388
	Molybdenum (Mo)	< 0.005		0.005	mg/L		30-SEP-05	MX	R330388
	Nickel (Ni)	<0.002		0.002	mg/L		30-SEP-05	MX	R330388
	Lead (Pb)	<0.0001		0.0001	mg/L		30-SEP-05	MX	R330388
	Antimony (Sb)	<0.0004		0.0004	mg/L		30-SEP-05	MX	R330388
	Selenium (Se)	<0.0004		0.0004	mg/L		30-SEP-05	MX	R330388
	Lin (Sn)	<0.05		0.05	mg/L		30-SEP-05	MX	R330388
	Thanium (TI)	<0.001		0.001	mg/L		30-3EP-05		K330388
	Uranium (U)	0.0001		0.0001	ma/l		30-SEP-05	MX	R330388
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Sample Details/Parameters	Result	Qualifier D.L.	Units	Extracted	Analyzed	By	Batch
L322074-3 STATION 15							
Sample Date: 21-SEP-05							
Matrix: WATER							
Dissolved Metals - CCME							
Dissolved Trace Metals	-0.001		ma/l		30-SEP-05	MY	D220299
Zinc (Zn)	<0.001	0.00			30-SEP-05		R330388
Dissolved Major Metals	0.000	0.002			50 OLI 05	IVIX	11000000
Iron (Fe)	0.013	0.00	5 ma/L		30-SEP-05	HAS	R330338
Manganese (Mn)	0.004	0.00	mg/L		30-SEP-05	HAS	R330338
Total Metals - CCME							
Total Trace Metals							
Silver (Ag)	<0.0004	0.000	4 mg/L		30-SEP-05	MX	R330389
Aluminum (Al)	<0.01	0.01	mg/L		30-SEP-05	MX	R330389
Arsenic (As)	0.0006	0.000	4 mg/L		30-SEP-05	MX	R330389
Boron (B)	<0.05	0.05	mg/L		30-SEP-05	MX	R330389
Barium (Ba)	0.026	0.00	3 mg/L		30-SEP-05	MX	R330389
Beryllium (Be)	<0.001	0.00	∣ mg/L		30-SEP-05	MX	R330389
	< 0.0002	0.000	2 mg/L		30-SEP-05	MX	R330389
Cobalt (Co)	<0.002	0.00	2 mg/L		30-SEP-05		R330389
Corport (Cr)	<0.005	0.00	s mg/L		30-SEP-05		R330389
Moreury (Hg)	<0.001	0.00			30-SEF-03		R330369
Lithium (Li)	<0.0002	0.000			30-SEP-05		R330309
Molybdenum (Mo)	<0.01	0.01	5 mg/L		30-SEP-05	MX	R330389
Nickel (Ni)	<0.000	0.00	mg/L		30-SEP-05	MX	R330389
Lead (Pb)	0.0002	0.000	1 ma/L		30-SEP-05	MX	R330389
Antimony (Sb)	< 0.0004	0.000	4 mg/L		30-SEP-05	MX	R330389
Selenium (Se)	<0.0004	0.000	4 mg/L		30-SEP-05	MX	R330389
Tin (Sn)	<0.05	0.05	mg/L		30-SEP-05	MX	R330389
Titanium (Ti)	<0.001	0.00	l mg/L		30-SEP-05	MX	R330389
Thallium (TI)	<0.0001	0.000	1 mg/L		30-SEP-05	MX	R330389
Uranium (U)	0.0001	0.000	1 mg/L		30-SEP-05	MX	R330389
Vanadium (V)	0.001	0.00	l mg/L		30-SEP-05	MX	R330389
Zinc (Zn)	<0.004	0.004	1 mg/L		30-SEP-05	MX	R330389
Total Major Metals							
Calcium (Ca)	63.6	0.5	mg/L		30-SEP-05	HAS	R330341
Potassium (K)	1.4	0.1	mg/L		30-SEP-05	HAS	R330341
Magnesium (Mg)	14.8	0.1	mg/L		30-SEP-05	HAS	R330341
Socium (Na)	5		mg/L		30-SEP-05	HAS	R330341
Manganese (Mn)	0.020	0.00			30-SEP-05		R330341
Wanganese (Win)	0.004	0.00	i iiig/L		30-3L1 -03	TIAS	1330341
Phosphorus, Total	0.005		ma/l		07-OCT-05	ті	R332886
Ammonia-N	0.000		5 ma/l		06-OCT-05	KWA	R332343
	20	1	mg/L		07-OCT-05	ZOW/	R332812
Routine Water Analysis - Low Level	20	•	iiig/L		07 001 00	2011	1002012
Chloride (CI)	5	1	ma/l		30-SEP-05	WYA	R330298
Nitrate+Nitrite-N	~ 0 00 0>		3 ma/l		30-SEP-05	SHC	R330437
Nitrate-N					30-SEP-05	SHC	R330/127
Nitrito-N) ma/l		30-SEP-05		P320437
Sulphate (SOA)	<0.00Z		ma/l				R320576
Sulphale (SU4)	19.1	0.05	Ing/L		04-001-05	3000	12323210
	8.2	01	Ha		30-SEP-05	РТТ	R330158
Conductivity (EC)	417	0.2	uS/cm		30-SEP-05	PTT	R330158
		0.2					

L3220743 STATION 15 Sample Date: 21-SEP-05 Frain and the second seco	Sample Details/Parameters	Result	Qualifier	D.L.	Units	Extracted	Analyzed	By	Batch
Lazo/743 51/11/00/15 Sample Date: 21.58F-05 Metric: WATER Pti Conductivity and Total Aklalinity Biactionate (HCO3) Catoonate (CO3) 45 Signed Date: 21.58F-05 High Conductivity and Total Aklalinity Biactionate (HCO3) Catoonate (CO3) 45 Signed Date: 21.58F-05 High Conductivity and Total Aklalinity Biactionate (HCO3) Catoonate (CO3) 45 Matrice: WATER Disolved Total Aklalinity Total (so CaCO3) 200 Signed Date: 21.58F-05 High Caculation Ion Baince 103 Catoonate (CO3) 221 Magnesium (Ka) 65 Catoonate (CO3) 221 Magnesium (Ka) 65 Catoonate (CO3) 221 Magnesium (Ka) 65 Catoonate (CO3) 221 Magnesium (Ka) 12.2 Magnesium (Ka) 15.3 Signed Date: 21.58F-05 Matrice: WATER Disolved Trace Metals Bron (B) 40.001 Matrice: WATER Disolved Metals - CCME Disolved Metals - CCME Disolve									
Sample Case Case of the transformer Nation: WATER Simple Case S	L3220/4-3 STATION 15 Sample Date: 21 SED 05								
Matter WATER Matter Matter </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
Induce Trade Marging S Lon Level model model Sol SEP-05 PTT R330158 Listoconste (ICO3) -45 5 mg/L 30.SEP-05 PTT R330158 Adalamity, Total (ac CaCO3) 200 5 mg/L 30.SEP-05 PTT R330158 Ion Balance Calculated) 209 5 mg/L 30.SEP-06 PTT R330158 Ion Balance Calculated) 229 mg/L 04-0CT-05 PTT R330152 Hadross (ac GaO3) 221 mg/L 04-0CT-05 AHY R330152 Datassum (K) 1.2 0.1 mg/L 30.SEP-05 AHY R330152 Sample Date: 21-SEP-05 Sature 1 mg/L 30.SEP-05 MHY R330152 Sample Date: 21-SEP-05 Xature VATER VATER 30.SEP-05 MKY R33338 Suber (Ag) 0.005 0.005 0.005 mg/L 30.SEP-05 MKY R333388 Suber (Ag) 0.005 0.005 mg/L 30.SEP-05 <td>Matrix: WATER Pouting Water Analysis - Low Lovel</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Matrix: WATER Pouting Water Analysis - Low Lovel								
pp: Control (COR) 244 5 mg/L 30.5EP.05 PTT R33158 Carbonate (COG) -5 5 mg/L 30.5EP.05 PTT R330189 Akaiminy, Tatal (as CaCO3) 200 5 mg/L 30.5EP.05 PTT R330189 Ion Balance 103 % 04-0CT.05 PTT R330189 Ion Balance 103 % 04-0CT.05 PTT R330189 Ion Balance 103 % 04-0CT.05 PTT R330152 Potassium (K) 1.2 mg/L 04-0CT.05 PTT R330152 Potassium (Mg) 15.3 0.1 mg/L 30.5EP.05 AHY R330152 Sample Date: 215-05 1 mg/L 30.5EP.05 AHY R33032 Jasset (As (A) 0.001 CoAd 0.001 mg/L 30.5EP.05 MK R330388 Jasset (A) 0.001 0.001 mg/L 30.5EP.05 MK R330388 Jasset (A)	Routine Water Analysis - Low Level								
Carbonate (CO3) -Carbonate (CO3) </td <td>Bicarbonate (HCO3)</td> <td>244</td> <td></td> <td>5</td> <td>ma/l</td> <td></td> <td>30-SEP-05</td> <td>PTT</td> <td>R330158</td>	Bicarbonate (HCO3)	244		5	ma/l		30-SEP-05	PTT	R330158
Hydroxide (OH) -5 mgL 30-SEP-06 PTT R330159 Ion Balance Calculation Ion Balance (acludation) 103 5 mgL 30-SEP-06 PTT R330159 Ion Balance (acludation) 229 mgL 04-0CT-86 mgL 04-0CT-86 mgL 30-SEP-06 PTT R330159 ICP metales (ac CaCO3) 221 0 mgL 30-SEP-06 AHY R330152 ICP metales (ac CaCO3) 221 0 mgL 30-SEP-06 AHY R330152 ICP metales (ac CaCO3) 5 1 mgL 30-SEP-06 AHY R330152 Sample Date: 21-SEP-06 SEP-06 AHY R330152 30-SEP-06 MX R330388 L1220744 STATION 12 Sample Date: 21-SEP-06 MX R330388 MX R330388 Aurinium (A) 0.01 mgL 30-SEP-06 MX R330388 Arsenic (As) 0.0005 0.0004 mgL 30-SEP-06 MX R330388 Aurinium (A) 0.	Carbonate (CO3)	<5		5	ma/l		30-SEP-05	PTT	R330158
Alkalnity Trad (as CaCO3) 200 5 mgL 30-SEP-05 PTT R330158 Ion Balance Caculation Ion Balance (acO3) 223 mgL 04-OCT-05 M	Hvdroxide (OH)	<5		5	ma/L		30-SEP-05	PTT	R330158
Ion Balance TDS (Galculad) 103 (29) 9 (mgL 0-CCT-05 (mgL 0-CCT-05 (0-CCT-05) ICP metals for routine water Calcum (Ra) 63.1 0.5 mgL 30-SEP-65 (Magnesium (Mg) AHY R330152 (30-SEP-65) L320744 STATION 12 Sample Date: 21-SEP-05 1 mgL 30-SEP-66 (MX R330152) AHY R330152 (30-SEP-66) L320744 STATION 12 Sample Date: 21-SEP-05 1 mgL 30-SEP-66 (MX R330388) AHY R330152 (30-SEP-66) L320744 STATION 12 Sample Date: 21-SEP-05 1 mgL 30-SEP-66 (MX R330388) AHY R330152 (MX R330388) L320744 STATION 12 Sample Date: 21-SEP-05 1 mgL 30-SEP-66 (MX R330388) Matrix: Dissolved Metals - COME 1 mgL 30-SEP-66 (MX R330388) MX R330388 (MX R330388) Auminum (A) 0.001 0.003 mgL 30-SEP-66 (MX R330388) MX R330388 Dissolved Metals - COME 1 mgL 30-SEP-66 (MX R330388) MX R330388 Cadmium (Ch) -0.005 0.0001 mgL 30-SEP-66 (MX R330388) MX R330388 Cadmium (Ch) -0.005 0.002	Alkalinity, Total (as CaCO3)	200		5	mg/L		30-SEP-05	PTT	R330158
Ion Balance TUS (Calculated) 103 229 mgL mgL 04-0CT-65 04-0CT-65 mgL AHY 04-0CT-65 04-0CT-65 ICP metals for routine water Calcium (Ca) Potasulum (N) 63.1 0.5 mgL 30 SEP.05 AHY R30152 Magnesiun (Ma) Sodium (Na) 1.2 0.1 mgL 30 SEP.05 AHY R30152 Sample Date: 21-SEP.06 TATTION 12 30 SEP.06 AHY R30152 30 SEP.05 AHY R30152 Sample Date: 21-SEP.06 TATTION 12 30 SEP.05 AHY R30152 30 SEP.05 AHY R30152 Matrix: Dissolved Metals - CCME Dissolved Trace Metals Beron (B) -0.0001 RAMB 0.0001 mgL 0.005 30 SEP.05 MX R330388 Barbin (Ba) 0.028 0.003 mgL 30 SEP.05 MX R330388 Berylium (Be) -0.05 0.004 mgL 30 SEP.05 MX R330388 Cadmiun (Ca) -0.001 0.001 mgL 30 SEP.05 MX R330388 Cadmiun (Ca) -0.002 0.002 mgL 30 SEP.05 MX R330388 Cadmiun (Ca) -0.001 0.0001 mgL 30 SEP.05 MX R330388 Cadmiun (Ca) <td< td=""><td>Ion Balance Calculation</td><td></td><td></td><td></td><td>0</td><td></td><td></td><td></td><td></td></td<>	Ion Balance Calculation				0				
TDS (Calculated) Hardness (as CaCO3) 229 mg/L Pd4-OCT-05 Mg/L 04-OCT-05 ICP metals for routine water Calcium (Ca) 63.1 0.5 mg/L 30 SEP-05 AHY R30152 Magnesium (Mg) 15.3 0.1 mg/L 30 SEP-05 AHY R30152 L320744 STATION 12 Sample Date: 21-SEP-05 1 mg/L 30 SEP-05 MX R303088 L320744 STATION 12 Sample Date: 21-SEP-05 NX R303088 MX R303088 Marix: WATER Dissolved Metals - CCME NX R303088 MX R303088 Aturinum (A) 0.01 RAMB 0.0001 mg/L 30 SEP-06 MX R303088 Aturinum (A) 0.01 0.01 mg/L 30 SEP-06 MX R303088 Aturinum (A) 0.01 0.001 mg/L 30 SEP-06 MX R303088 Genomic (As) 0.002 0.003 mg/L 30 SEP-06 MX R303088 Genomic (As) <	Ion Balance	103			%		04-OCT-05		
Hardness (ac CaCO3) 221 mg/L PdfL C4-OCT-05 LCP metals for routine water 63.1 0.5 mg/L 30-SEP-05 AHY R330162 Potassium (K) 1.2 0.1 mg/L 30-SEP-05 AHY R330162 Sodium (Na) 5 1 mg/L 30-SEP-05 AHY R330162 Sample Date: 21-SEP-05 mg/L 30-SEP-05 MX R330182 Dissolved Wetals COM RAMB 0.0001 mg/L 30-SEP-05 MX R330388 Matrix: WATER Dissolved Wetals COM RAMB 0.0001 mg/L 30-SEP-05 MX R330388 Alurninum (A) 0.01 0.01 mg/L 30-SEP-05 MX R330388 Bron (B) <0.05	TDS (Calculated)	229			mg/L		04-OCT-05		
ICP metals for routine water 63.1 0.5 mg/L 30-SEP-05 AHY R330152 Potassium (K) 1.2 0.1 mg/L 30-SEP-05 AHY R330152 Sodium (Na) 5 1 mg/L 30-SEP-05 AHY R330152 L32074-4 STATION 12 Sample Date: 'LSEP-05 Img/L 30-SEP-05 AHY R330388 Marine: WATER Dissolved Matals - CCME Img/L 30-SEP-05 MX R330388 Marine: WATER Dissolved Matals - CCME Img/L 30-SEP-05 MX R330388 Arsenic (As) 0.0001 mg/L 30-SEP-05 MX R330388 Barium (Ba) 0.028 0.003 mg/L 30-SEP-05 MX R330388 Cadmium (Cd) -0.051 0.001 mg/L 30-SEP-05 MX R330388 Garium (Cd) -0.062 0.002 mg/L 30-SEP-05 MX R330388 Cadmium (Cd) -0.002 0.0001 mg/L 30-S	Hardness (as CaCO3)	221			mg/L		04-OCT-05		
Calcium (Ca) 63.1 0.5 mg/L 30-SEP-05 AHY R330152 Magnesium (Mg) 15.3 0.1 mg/L 30-SEP-05 AHY R330152 L322074-4 STATION 12 5 1 mg/L 30-SEP-05 AHY R330152 L322074-4 STATION 12 5 1 mg/L 30-SEP-05 AHY R33082 Sample Date: 21-SEP-06 MX R33088 Arrent: R33088 R330	ICP metals for routine water								
Protassum (K) 1.2 0.1 mgL 30-SEP-05 AHY R330152 Sodium (Na) 5 1 mgL 30-SEP-05 AHY R330152 L322074-4 STATION 12 30-SEP-05 AHY R330152 Sample Date: 21-SEP-05 Matrix WATER 30-SEP-05 MX R330388 Dissolved Metals - COME Dissolved Metals - COME 30-SEP-05 MX R330388 Boron (B) -0.001 0.001 mgL 30-SEP-05 MX R330388 Barium (Ba) 0.0025 0.004 mgL 30-SEP-05 MX R330388 Barium (Ba) 0.028 0.003 mgL 30-SEP-05 MX R330388 Cadmiun (C0) -0.001 0.001 mgL 30-SEP-05 MX R330388 Cadmiun (C1) -0.0001 0.001 mgL 30-SEP-05 MX R330388 Chornium (C1) -0.005 0.002 mgL 30-SEP-05 MX R330388 Mareury (Hg) <td< td=""><td>Calcium (Ca)</td><td>63.1</td><td></td><td>0.5</td><td>mg/L</td><td></td><td>30-SEP-05</td><td>AHY</td><td>R330152</td></td<>	Calcium (Ca)	63.1		0.5	mg/L		30-SEP-05	AHY	R330152
Magnesum (Mg) 15.3 0.1 mg/L 30-SEP-06 AHY R330152 L32074-4 STATION 12 Sample Date: 21-SEP-05 AHY R330152 Matrix: WATER Dissolved Metals - CCME Image: Complex Com	Potassium (K)	1.2		0.1	mg/L		30-SEP-05	AHY	R330152
Sodum (Na) 5 1 mgL 30'SEP-05 AHY R30152 122074-4 STATION 12 Sample Date: 21-SEP-06 ImgL 30'SEP-05 MAY R30388 Dissolved Metals - CCME Dissolved Metals - CCME ImgL 30'SEP-06 MX R30388 Auminum (A) 0.01 mgL 30'SEP-05 MX R30388 Boron (B) -0.05 0.06 mgL 30'SEP-06 MX R30388 Boron (B) -0.02 0.0001 mgL 30'SEP-06 MX R30388 Barium (Ba) 0.028 0.003 mgL 30'SEP-06 MX R30388 Cadmium (Cd) -0.001 0.001 mgL 30'SEP-06 MX R30388 Cadati (Ca) -0.001 0.001 mgL 30'SEP-06 MX R30388 Cadati (Ca) -0.001 0.001 mgL 30'SEP-06 MX R30388 Cadati (Ca) -0.001 0.001 mgL 30'SEP-06 MX R30388	Magnesium (Mg)	15.3		0.1	mg/L		30-SEP-05	AHY	R330152
L32074-4 STATION 12 Sample Date: 21-SEP-05 Matrix: WATER Dissolved Metals - CCME Dissolved Trace Metals Aluminum (A) Aluminum (A) Arsenic (As) Berrul (Ba) Berrul (Ba) Codati (Ca) Codati	Sodium (Na)	5		1	mg/L		30-SEP-05	AHY	R330152
Sample Date: 21-SEP-05 Matrix: WATER Dissolved Metals - CCME Dissolved Metals - CCME No. No. Dissolved Metals - CCME 0.01 RAMB 0.001 mg/L 30-SEP-05 MX R330388 Aluminum (A) 0.01 0.01 mg/L 30-SEP-05 MX R330388 Barium (Ba) 0.002 0.0004 mg/L 30-SEP-05 MX R330388 Barium (Ba) 0.028 0.003 mg/L 30-SEP-05 MX R330388 Cadmium (Ca) -0.001 0.0001 mg/L 30-SEP-05 MX R330388 Cobalt (Co) -0.001 0.0001 mg/L 30-SEP-05 MX R330388 Chomium (Cr) -0.005 0.005 mg/L 30-SEP-05 MX R330388 Mercury (Ha) -0.0001 0.0001 mg/L 30-SEP-05 MX R330388 Lithium (Li) 0.005 0.003 mg/L 30-SEP-05 MX R330388 Mercury (Ha) -0.000	L322074-4 STATION 12								
Matrix: WATER Image: Solution of the solution (tho) A conor is	Sample Date: 21-SEP-05								
Dissolved Metals	Matrix: WATER								
Dissolved Trace Metals Gamma Constraints Silver (Ag) <0.0001	Dissolved Metals - CCME								
Shirei (vg) 20,0001 FR/MB 0.001 Ing/L 30-SEP-05 MX R330388 Arsenic (As) 0.0005 0.0004 mg/L 30-SEP-05 MX R330388 Baron (B) <0.05	Dissolved Trace Metals	0.0004		0.0001	~~~/l			MAX	D000000
Administration (ki) Out Out Out Ingl_L 30-SEP-05 MX R330388 Boron (B) -0.05 0.005 mgl_L 30-SEP-06 MX R330388 Barium (Ba) 0.028 0.003 mgl_L 30-SEP-06 MX R330388 Beryllium (Be) -0.001 0.001 mgl_L 30-SEP-06 MX R330388 Cadmium (Cd) -0.002 0.002 mgl_L 30-SEP-06 MX R330388 Cadmium (Cd) -0.002 0.002 mgl_L 30-SEP-06 MX R330388 Chornium (Cr) -0.002 0.002 mgl_L 30-SEP-06 MX R330388 Mercury (Hg) -0.001 0.001 mgl_L 30-SEP-05 MX R330388 Mickel (Ni) -0.002 0.002 mgl_L 30-SEP-05 MX R330388 Mickel (Ni) -0.002 0.005 mgl_L 30-SEP-05 MX R330388 Nickel (Ni) -0.002 0.005 mgl_L		<0.0001	RAIVID	0.0001	mg/∟		30-3EP-03		K330388
Addition (ND) COUCH COUCH Couch Mg/L Couch Couch Mg/L Couch	Arsonic (As)	0.01		0.01	mg/L		30-SEP-05		R330388
Barium (Ba) D.032 mg/L Borst, Br Borst, Br Borst, Br Barium (Ba) 0.028 0.001 mg/L 30-SEP-05 MX R330388 Cadmium (Cd) -0.0001 0.001 mg/L 30-SEP-05 MX R330388 Cobalt (Co) -0.002 0.002 mg/L 30-SEP-05 MX R330388 Chromium (Cr) -0.005 0.005 mg/L 30-SEP-05 MX R330388 Cobalt (Co) -0.001 0.001 mg/L 30-SEP-05 MX R330388 Mercury (Hg) -0.0001 0.001 mg/L 30-SEP-05 MX R330388 Molybdenum (Mo) -0.005 0.003 mg/L 30-SEP-05 MX R330388 Lead (Pb) -0.002 0.002 mg/L 30-SEP-05 MX R330388 Lead (Pb) -0.002 0.002 mg/L 30-SEP-05 MX R330388 Selenium (Se) -0.004 0.004 mg/L 30-SEP-05 MX	Boron (B)	<0.05		0.0004	mg/L		30-SEP-05	MX	R330388
Berylium (Ee) c0.001 0.001 mg/L 30 SEP-05 MX R330388 Cadmium (Cd) <0.001	Barium (Ba)	0.028		0.00	mg/L		30-SEP-05	MX	R330388
Cadmium (Cd) -0.0001 0.0001 mg/L 30-SEP-05 MX R330388 Cobalt (Co) -0.002 0.002 mg/L 30-SEP-05 MX R330388 Cohonium (Cr) -0.001 0.001 mg/L 30-SEP-05 MX R330388 Copper (Cu) -0.001 0.001 mg/L 30-SEP-05 MX R330388 Mercury (Hg) -0.001 0.001 mg/L 30-SEP-05 MX R330388 Lithium (Li) 0.005 0.003 mg/L 30-SEP-05 MX R330388 Molybdenum (Mo) -0.005 0.003 mg/L 30-SEP-05 MX R330388 Lead (Pb) -0.0001 0.002 mg/L 30-SEP-05 MX R330388 Selenium (Se) -0.0004 0.0004 mg/L 30-SEP-05 MX R330388 Tin (Sn) <0.005	Bervllium (Be)	< 0.001		0.001	ma/L		30-SEP-05	MX	R330388
Cobalt (Co) -0.002 0.002 mg/L 30-SEP-05 MX R330388 Chromium (Cr) -0.005 0.005 mg/L 30-SEP-05 MX R330388 Copper (Cu) -0.001 0.001 mg/L 30-SEP-05 MX R330388 Mercury (Hg) -0.001 0.001 mg/L 30-SEP-05 MX R330388 Molybdenum (Mo) -0.005 0.003 mg/L 30-SEP-05 MX R330388 Mokybdenum (Mo) -0.005 0.003 mg/L 30-SEP-05 MX R330388 Lead (Pb) -0.001 0.001 mg/L 30-SEP-05 MX R330388 Antimony (Sb) -0.0001 0.001 mg/L 30-SEP-05 MX R330388 Titanium (Ti) -0.001 0.004 0.0004 mg/L 30-SEP-05 MX R330388 Titanium (Ti) -0.001 0.001 mg/L 30-SEP-05 MX R330388 Uranium (U) 0.001 0.001 mg/L	Cadmium (Cd)	<0.0001		0.0001	mg/L		30-SEP-05	MX	R330388
Chromium (Cr) -0.005 0.005 mg/L 30-SEP-05 MX R330388 Copper (Cu) -0.001 0.001 mg/L 30-SEP-05 MX R330388 Mercury (Hg) -0.001 0.001 mg/L 30-SEP-05 MX R330388 Lithium (Li) 0.005 0.003 mg/L 30-SEP-05 MX R330388 Molydenum (Mo) -0.005 0.005 mg/L 30-SEP-05 MX R330388 Nickel (Ni) -0.002 0.002 mg/L 30-SEP-05 MX R330388 Antimony (Sb) -0.0004 0.0004 mg/L 30-SEP-05 MX R330388 Selenium (Se) -0.0004 0.0004 mg/L 30-SEP-05 MX R330388 Tin (Sn) <0.05	Cobalt (Co)	<0.002		0.002	mg/L		30-SEP-05	MX	R330388
Copper (Cu) <0.001 0.01 mg/L 30-SEP-05 MX R330388 Mercury (Hg) 0.0001 0.0001 mg/L 30-SEP-05 MX R330388 Lithium (Li) 0.005 0.003 mg/L 30-SEP-05 MX R330388 Molybdenum (Mo) <0.005	Chromium (Cr)	<0.005		0.005	mg/L		30-SEP-05	MX	R330388
Mercury (Hg) <0.0001 mg/L 30-SEP-05 MX R330388 Lithium (Li) 0.005 0.003 mg/L 30-SEP-05 MX R330388 Molybdenum (Mo) <0.005	Copper (Cu)	<0.001		0.001	mg/L		30-SEP-05	MX	R330388
Lithium (Li) 0.005 0.003 mg/L 30-SEP-05 MX R330388 Molybdenum (Mo) <0.005	Mercury (Hg)	<0.0001		0.0001	mg/L		30-SEP-05	MX	R330388
Molybdenum (Mo) <0.005 0.005 mg/L 30-SEP-05 MX R330388 Nickel (Ni) <0.002	Lithium (Li)	0.005		0.003	mg/L		30-SEP-05	MX	R330388
Nickel (Ni) <0.002 0.002 mg/L 30-SEP-05 MX R330388 Lead (Pb) <0.0001	Molybdenum (Mo)	<0.005		0.005	mg/L		30-SEP-05	MX	R330388
Lead (Pb) <0.0001 0.0001 mg/L 30-SEP-05 MX R330388 Antimony (Sb) <0.0004	Nickel (Ni)	<0.002		0.002	mg/L		30-SEP-05	MX	R330388
Antimony (Sb) <0.0004	Lead (Pb)	<0.0001		0.0001	mg/L		30-SEP-05	MX	R330388
Seleriulin (Se) 40.0004 0.0004 mg/L 30-SEP-05 MX R330388 Tin (Sn) <0.05	Antimony (Sb)	<0.0004		0.0004	mg/L		30-SEP-05	MX	R330388
Titanium (Ti) <0.03	Selenium (Se)	<0.0004		0.0004	mg/∟		30-SEP-05		R330388
Thallium (TI) <0.001	Titanium (Ti)	<0.00		0.05	mg/L		30-SEP-05	MX	P330388
Uranium (U) 0.0003 0.0001 mg/L 30-SEP-05 MX R330388 Vanadium (V) 0.001 0.001 mg/L 30-SEP-05 MX R330388 Zinc (Zn) 0.009 0.002 mg/L 30-SEP-05 MX R330388 Dissolved Major Metals 0.003 0.005 mg/L 30-SEP-05 MX R330388 Iron (Fe) 0.030 0.005 mg/L 30-SEP-05 HAS R330388 Manganese (Mn) 0.003 0.001 mg/L 30-SEP-05 HAS R330388 Total Metals - CCME 0.0004 0.0004 mg/L 30-SEP-05 MX R330389 Aluminum (Al) <0.01	Thallium (TI)	<0.001		0.001	mg/L		30-SEP-05	MX	R330388
Vanadium (V) <0.001	Uranium (U)	0.0003		0.0001	mg/L		30-SEP-05	MX	R330388
Zinc (Zn) 0.009 0.002 mg/L 30-SEP-05 MX R330388 Dissolved Major Metals Iron (Fe) 0.030 0.005 mg/L 30-SEP-05 HAS R330338 Manganese (Mn) 0.003 0.001 mg/L 30-SEP-05 HAS R330338 Total Metals - CCME 0.0004 0.001 mg/L 30-SEP-05 MX R330389 Silver (Ag) <0.004	Vanadium (V)	< 0.001		0.001	ma/L		30-SEP-05	MX	R330388
Dissolved Major Metals Iron (Fe) 0.030 0.005 mg/L 30-SEP-05 HAS R330338 Manganese (Mn) 0.003 0.001 mg/L 30-SEP-05 HAS R330338 Total Metals - CCME	Zinc (Zn)	0.009		0.002	mg/L		30-SEP-05	MX	R330388
Iron (Fe) 0.030 0.005 mg/L 30-SEP-05 HAS R330338 Manganese (Mn) 0.003 0.001 mg/L 30-SEP-05 HAS R330338 Total Metals - CCME	Dissolved Major Metals				5				
Manganese (Mn) 0.003 0.001 mg/L 30-SEP-05 HAS R330338 Total Metals - CCME Silver (Ag) <0.0004 0.0004 mg/L 30-SEP-05 MX R330389 Aluminum (Al) <0.01 mg/L 30-SEP-05 MX R330389 Arsenic (As) 0.0006 0.0004 mg/L 30-SEP-05 MX R330389 Boron (B) <0.05 mg/L 30-SEP-05 MX R330389	Iron (Fe)	0.030		0.005	mg/L		30-SEP-05	HAS	R330338
Total Metals - CCME Image: Colored Metals and the second metal and t	Manganese (Mn)	0.003		0.001	mg/L		30-SEP-05	HAS	R330338
Total Trace Metals	Total Metals - CCME								
Silver (Ag) <0.0004 mg/L 30-SEP-05 MX R330389 Aluminum (Al) <0.01	Total Trace Metals				**				
Aluminum (Al)<0.01mg/L30-SEP-05MXR330389Arsenic (As)0.00060.0004mg/L30-SEP-05MXR330389Boron (B)<0.05	Silver (Ag)	<0.0004		0.0004	mg/L		30-SEP-05	MX	R330389
Arsenic (As) 0.0006 0.0004 mg/L 30-SEP-05 MX R330389 Boron (B) <0.05	Aluminum (Al)	<0.01		0.01	mg/L		30-SEP-05	MX	R330389
OUDI (D) <0.05 MX R330389	Arsenic (As) Boron (B)	0.0006		0.0004	mg/L		30-5EP-05	MX	R330389
		<0.02		0.05	mg/∟		50-3LF-03	IVIA	1220303

Sample Details	s/Parameters	Result	Qualifier	D.L.	Units	Extracted	Analyzed	By	Batch
1 322074-4	STATION 12								
Sample Date:	21-SEP-05								
Matrix:	WATER								
Total Me	als - CCME								
Total Tr	ace Metals								
	Barium (Ba)	0.029		0.003	mg/L		30-SEP-05	MX	R330389
	Beryllium (Be)	<0.001		0.001	mg/L		30-SEP-05	MX	R330389
	Cadmium (Cd)	<0.0002		0.0002	mg/L		30-SEP-05	MX	R330389
	Cobalt (Co)	<0.002		0.002	mg/L		30-SEP-05	MX	R330389
	Chromium (Cr)	<0.005		0.005	mg/L		30-SEP-05	MX	R330389
	Copper (Cu)	<0.001		0.001	mg/L		30-SEP-05	MX	R330389
	Mercury (Hg)	<0.0002		0.0002	mg/L		30-SEP-05	MX	R330389
	Lithium (Li)	<0.01		0.01	mg/L		30-SEP-05	MX	R330389
	Molybdenum (Mo)	<0.005		0.005	mg/L		30-SEP-05	MX	R330389
		<0.002		0.002	mg/L		30-SEP-05	MX	R330389
	Lead (Pb)	0.0001		0.0001	mg/L		30-SEP-05	MX	R330389
	Antimony (SD)	<0.0004		0.0004	mg/∟		30-SEP-05	IVIX	R330389
	Selenium (Se)	< 0.0004		0.0004	mg/L		30-SEP-05	MX	R330389
	Titopium (Ti)	<0.05		0.05	mg/∟		30-SEP-05		R330309
	Thallium (TI)	<0.001		0.001	mg/L		30-SEP-05		R330309
		<0.0001		0.0001	mg/L		30-SEP-05		D320309
	Vanadium (V)	0.0003		0.0001	mg/L		30-SEP-05	MX	R330389
	Zinc (Zn)	<0.001		0.001	mg/L		30-SEP-05	MX	R330389
Total M	aior Metals	CO.00 4		0.004	ing/∟			W/X	11000000
	Calcium (Ca)	66.5		0.5	mg/L		30-SEP-05	HAS	R330341
	Potassium (K)	1.0		0.1	mg/L		30-SEP-05	HAS	R330341
	Magnesium (Mg)	16.5		0.1	mg/L		30-SEP-05	HAS	R330341
	Sodium (Na)	6		1	mg/L		30-SEP-05	HAS	R330341
	Iron (Fe)	0.038		0.005	mg/L		30-SEP-05	HAS	R330341
	Manganese (Mn)	0.003		0.001	mg/L		30-SEP-05	HAS	R330341
	Dhaanharua Tatal	0.005		0.004				-	Doooooo
	Ammonia N	0.005		0.001	mg/L				R332886
	Total Organia Carbon	0.032		0.005	mg/L		00-001-05		R332343
Poutino I	Nator Analysis - Low Loval	23		1	mg/∟		07-001-05	2000	R332012
Noutifie	Chloride (CI)	6		1	ma/l		30 SED 05		D220200
	Nitroto i Nitrito N	-0.006		0.006	mg/L		30-3LF-03	SHC	R330290
		<0.000		0.000	mg/∟				R330437
		<0.006		0.006	mg/∟		30-3EF-05	300	R330437
	Nullite-N	<0.002		0.002	mg/∟		30-SEP-05	SHC	R330437
	Sulphate (SO4)	28.1		0.05	mg/L		04-001-05	JVVU	R329576
рп, сог		8.2		0.1	nH		30-SEP-05	DTT	P330158
	Conductivity (EC)	438		0.1	uS/cm		30-SEP-05	PTT	R330158
	Bicarbonate (HCO3)	242		5	ma/l		30-SEP-05	PTT	R330158
	Carbonate (CO3)	<5		5	ma/l		30-SEP-05	PTT	R330158
	Hydroxide (OH)	<5		5	ma/L		30-SEP-05	PTT	R330158
	Alkalinity, Total (as CaCO3)	199		5	mg/L		30-SEP-05	PTT	R330158
Ion Bala	Ince Calculation				Ū				
	Ion Balance	102			%		04-OCT-05		
	TDS (Calculated)	241			mg/L		04-OCT-05		
	Hardness (as CaCO3)	226			mg/L		04-OCT-05		
ICP met	als for routine water								
	Calcium (Ca)	63.9		0.5	mg/L		30-SEP-05	AHY	R330152
	Potassium (K)	1.1		0.1	mg/L		30-SEP-05	AHY	R330152

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Extracted	Analyzed	By	Batch
1 322074-4 STATION 12								
Sample Date: 21-SEP-05								
Matrix: WATER								
Routine Water Analysis - Low Level								
ICP metals for routine water								
Magnesium (Mg)	16.2		0.1	mg/L		30-SEP-05	AHY	R330152
Sodium (Na)	6		1	mg/L		30-SEP-05	AHY	R330152
L322074-5 STATION 14 A								
Sample Date: 20-SEP-05								
Matrix: WATER								
Dissolved Metals - CCME								
Dissolved Trace Metals	-0.0001		0.0001	ma/l				D00000
Aluminum (Al)	<0.0001		0.0001	mg/L		30-SEP-05		R330300
Arsenic (As)	0.37		0.01	mg/L		30-SEP-05	MX	R330388
Boron (B)	<0.05		0.05	mg/L		30-SEP-05	MX	R330388
Barium (Ba)	0.063		0.003	mg/L		30-SEP-05	MX	R330388
Beryllium (Be)	<0.001		0.001	mg/L		30-SEP-05	MX	R330388
Cadmium (Cd)	0.0001		0.0001	mg/L		30-SEP-05	MX	R330388
Cobalt (Co)	<0.002		0.002	mg/L		30-SEP-05	MX	R330388
Chromium (Cr)	<0.005		0.005	mg/L		30-SEP-05	MX	R330388
Copper (Cu)	0.005		0.001	mg/L		30-SEP-05	MX	R330388
Mercury (Hg)	<0.0001		0.0001	mg/L		30-SEP-05	MX	R330388
Lithium (Li)	0.007		0.003	mg/L		30-SEP-05	MX	R330388
Molybdenum (Mo)	<0.005		0.005	mg/L		30-SEP-05	MX	R330388
Nickel (Ni)	0.005		0.002	mg/L		30-SEP-05	MX	R330388
Lead (Pb)	0.0021		0.0001	mg/L		30-SEP-05	MX	R330388
Antimony (Sb)	0.0007		0.0004	mg/∟ ma/l		30-SEP-05		R330388
Tin (Sp)	<0.004		0.0004	mg/L		30-SEP-05		R330300
Titanium (Ti)	0.004		0.05	mg/L		30-SEP-05	MX	R330388
Thallium (TI)	<0.004		0.0001	ma/l		30-SEP-05	MX	R330388
Uranium (U)	0.0005		0.0001	ma/L		30-SEP-05	MX	R330388
Vanadium (V)	0.002		0.001	mg/L		30-SEP-05	MX	R330388
Zinc (Zn)	0.006		0.002	mg/L		30-SEP-05	MX	R330388
Dissolved Major Metals								
Iron (Fe)	2.62		0.005	mg/L		30-SEP-05	HAS	R330338
Manganese (Mn)	0.123		0.001	mg/L		30-SEP-05	HAS	R330338
Total Metals - CCME								
Total Trace Metals	-0.0004		0.0004	ma/l				D00000
	<0.0004 7 01		0.0004	mg/L		30-SEP-05		R330380
Arsenic (As)	0.0035		0.01	ma/l		30-SEP-05	MX	R330380
Boron (B)	<0.05		0.05	ma/L		30-SEP-05	MX	R330389
Barium (Ba)	0.116		0.003	ma/L		30-SEP-05	MX	R330389
Beryllium (Be)	<0.001		0.001	mg/L		30-SEP-05	MX	R330389
Cadmium (Cd)	<0.0002		0.0002	mg/L		30-SEP-05	MX	R330389
Cobalt (Co)	0.003		0.002	mg/L		30-SEP-05	MX	R330389
Chromium (Cr)	0.011		0.005	mg/L		30-SEP-05	MX	R330389
Copper (Cu)	0.008		0.001	mg/L		30-SEP-05	MX	R330389
Mercury (Hg)	<0.0002		0.0002	mg/L		30-SEP-05	MX	R330389
Lithium (Li)	0.01		0.01	mg/L		30-SEP-05	MX	R330389
Molybdenum (Mo)	<0.005		0.005	mg/L		30-SEP-05	MX	R330389
NICKEI (NI)	0.009		0.002	mg/L		30-SEP-05	MX	R330389
	0.0035		0.0001	ing/L		30-3EP-05	IVIX	530388

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Extracted	Analyzed	By	Batch
1 322074-5 STATION 14 A								
Sample Date: 20-SEP-05								
Matrix: WATER								
Total Metals - CCME								
Total Trace Metals								
Antimony (Sb)	0.0008		0.0004	mg/L		30-SEP-05	MX	R330389
Selenium (Se)	0.0005		0.0004	mg/L		30-SEP-05	MX	R330389
Tin (Sn)	<0.05		0.05	mg/L		30-SEP-05	MX	R330389
Litanium (Li)	0.067		0.001	mg/L		30-SEP-05	MX	R330389
Liranium (LI)	0.0001		0.0001	mg/∟		30-3EP-03		R330389
Vanadium (V)	0.0007		0.0001	mg/L		30-3EF-03	MX	R330389
Zinc (Zn)	0.020		0.001	mg/L		30-SEP-05	MX	R330389
Total Major Metals	0.010		0.004			00 02. 00	W/X	11000000
Calcium (Ca)	30.3		0.5	mg/L		30-SEP-05	HAS	R330341
Potassium (K)	3.3		0.1	mg/L		30-SEP-05	HAS	R330341
Magnesium (Mg)	9.8		0.1	mg/L		30-SEP-05	HAS	R330341
Sodium (Na)	8		1	mg/L		30-SEP-05	HAS	R330341
Iron (Fe)	6.92		0.005	mg/L		30-SEP-05	HAS	R330341
Manganese (Mn)	0.141		0.001	mg/L		30-SEP-05	HAS	R330341
Phosphorus, Total	0.157		0.001	mg/L		07-OCT-05	TL	R332886
Ammonia-N	0.025		0.005	mg/L		06-OCT-05	KMY	R332343
Total Organic Carbon	23		1	mg/L		07-OCT-05	ZOW	R332812
Routine Water Analysis - Low Level								
Chloride (Cl)	6		1	mg/L		04-OCT-05	GCM	R311460
Nitrate+Nitrite-N	<0.006		0.006	mg/L		30-SEP-05	SHC	R330437
Nitrate-N	<0.006		0.006	mg/L		30-SEP-05	SHC	R330437
Nitrite-N	0.002		0.002	mg/L		30-SEP-05	SHC	R330437
Sulphate (SO4)	26.1		0.05	mg/L		04-OCT-05	JWU	R329576
pH, Conductivity and Total Alkalinity								
pH	8.0		0.1	pН		30-SEP-05	PTT	R330158
Conductivity (EC)	232		0.2	uS/cm		30-SEP-05	PTT	R330158
Bicarbonate (HCO3)	99		5	mg/L		30-SEP-05	PTT	R330158
Carbonate (CO3)	<5		5	mg/L		30-SEP-05	PII	R330158
Alkalinity, Total (as CaCO3)	<5		5	mg/∟		30-SEP-05	PII	R330158
Ion Balance Calculation	01		5	mg/∟		30-3LF-03	FII	K330130
Ion Balance	115	BL:INT		%		04-OCT-05		
TDS (Calculated)	131			mg/L		04-OCT-05		
Hardness (as CaCO3)	112			mg/L		04-OCT-05		
ICP metals for routine water								
Calcium (Ca)	29.8		0.5	mg/L		03-OCT-05	AHY	R330976
Potassium (K)	1.8		0.1	mg/L		03-OCT-05	AHY	R330976
Magnesium (Mg)	9.2		0.1	mg/L		03-OCT-05	AHY	R330976
Sodium (Na)	9		1	mg/L		03-001-05	AHY	R330976
L322074-6 STATION 14 B								
Sample Date: 20-SEP-05								
Matrix: WATER								
Dissolved Metals - CCME Dissolved Trace Matals								
Silver (Aa)	<0.0001	RAMB	0.0001	ma/l		30-SEP-05	МХ	R330388
Aluminum (Al)	0.02		0.01	mg/L		30-SEP-05	MX	R330388
Arsenic (As)	0.0005		0.0004	mg/L		30-SEP-05	MX	R330388

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Extracted	Analyzed	By	Batch
Sample Date: 20-SEP-05								
Dissolved Metals - CCME								
Dissolved Trace Metals								
Boron (B)	<0.05		0.05	mg/L		30-SEP-05	MX	R330388
Barium (Ba)	0.039		0.003	mg/L		30-SEP-05	MX	R330388
Beryllium (Be)	<0.001		0.001	mg/L		30-SEP-05	MX	R330388
Cadmium (Cd)	<0.0001		0.0001	mg/L		30-SEP-05	MX	R330388
Cobalt (Co)	<0.002		0.002	mg/L		30-SEP-05	MX	R330388
Chromium (Cr)	<0.005		0.005	mg/L		30-SEP-05	MX	R330388
Copper (Cu)	0.002		0.001	mg/L		30-SEP-05	MX	R330388
Mercury (Hg)	<0.0001		0.0001	mg/L		30-SEP-05	MX	R330388
Litnium (Li)	0.007		0.003	mg/L		30-SEP-05	MX	R330388
Niekol (Nii)	<0.005		0.005	mg/L		30-SEP-05		R330388
	0.003		0.002	mg/L		30-SEP-05		R330388
Antimony (Sh)	0.0004		0.0001	mg/L		30-SEP-05		R330300
Selenium (Se)	~0.0009		0.0004	mg/L		30-SEP-05	MX	R330388
Tin (Sn)	<0.0004		0.0004	mg/L		30-SEP-05	MX	R330388
Titanium (Ti)	0.001		0.001	ma/L		30-SEP-05	MX	R330388
Thallium (TI)	<0.0001		0.0001	ma/L		30-SEP-05	MX	R330388
Uranium (U)	0.0004		0.0001	ma/L		30-SEP-05	MX	R330388
Vanadium (V)	<0.001		0.001	mg/L		30-SEP-05	MX	R330388
Zinc (Zn)	0.008		0.002	mg/L		30-SEP-05	MX	R330388
Dissolved Major Metals				-				
Calcium (Ca)	29.5		0.5	mg/L		30-SEP-05	HAS	R330338
Potassium (K)	1.0		0.1	mg/L		30-SEP-05	HAS	R330338
Magnesium (Mg)	8.68		0.01	mg/L		30-SEP-05	HAS	R330338
Sodium (Na)	7.9		0.5	mg/L		30-SEP-05	HAS	R330338
Iron (Fe)	0.107		0.005	mg/L		30-SEP-05	HAS	R330338
Manganese (Mn)	0.004		0.001	mg/L		30-SEP-05	HAS	R330338
Total Metals - CCME								
I otal I race Metals Silver (Ag)	-0.0004		0.0004	ma/l		30-SED-05	MY	D220290
	0.004		0.0004	mg/L		30-SEP-05	MX	P330380
Arsenic (As)	0.004		0.001	ma/l		30-SEP-05	MX	R330389
Boron (B)	<0.05		0.05	ma/L		30-SEP-05	MX	R330389
Barium (Ba)	0.039		0.003	ma/L		30-SEP-05	MX	R330389
Beryllium (Be)	<0.001		0.001	mg/L		30-SEP-05	MX	R330389
Cadmium (Cd)	<0.0002		0.0002	mg/L		30-SEP-05	MX	R330389
Cobalt (Co)	<0.002		0.002	mg/L		30-SEP-05	MX	R330389
Chromium (Cr)	<0.005		0.005	mg/L		30-SEP-05	MX	R330389
Copper (Cu)	0.003		0.001	mg/L		30-SEP-05	MX	R330389
Mercury (Hg)	<0.0002		0.0002	mg/L		30-SEP-05	MX	R330389
Lithium (Li)	<0.01		0.01	mg/L		30-SEP-05	MX	R330389
Molybdenum (Mo)	<0.005		0.005	mg/L		30-SEP-05	MX	R330389
Nickel (Ni)	0.003		0.002	mg/L		30-SEP-05	MX	R330389
Lead (Pb)	0.0001		0.0001	mg/L		30-SEP-05	MX	R330389
Antimony (Sb)	<0.0004		0.0004	mg/L		30-SEP-05	MX	R330389
Selenium (Se)	< 0.0004		0.0004	mg/L		30-SEP-05	MX	R330389
Lin (Sn)	<0.05		0.05	mg/L		30-SEP-05	MX	R330389
Thallium (TI)	0.002		0.001	ing/L		30-3EP-05		K330389
			0.0001	mg/L		30-3EP-03		R330389
	0.0004		0.0001	g/ L			14173	

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Extracted	Analyzed	By	Batch
L322074-0 STATION 14 B Sample Date: 20-SEP-05								
Motrix: MATER								
Total Metals - CCME								
Total Trace Metals								
Vanadium (V)	<0.001		0.001	mg/L		30-SEP-05	MX	R330389
Zinc (Zn)	<0.004		0.004	mg/L		30-SEP-05	MX	R330389
Total Major Metals								
Calcium (Ca)	28.1		0.5	mg/L		30-SEP-05	HAS	R330341
Potassium (K)	1.0		0.1	mg/L		30-SEP-05	HAS	R330341
Magnesium (Mg)	8.3		0.1	mg/L		30-SEP-05	HAS	R330341
Sodium (Na)	7		1	mg/L		30-SEP-05	HAS	R330341
Iron (Fe)	0.109		0.005	mg/L		30-SEP-05	HAS	R330341
Manganese (Min)	0.004		0.001	mg/∟		30-SEP-05	HAS	R330341
L322074-7 STATION 2								
Sample Date: 20-SEP-05								
Matrix: WATER								
Dissolved Metals - CCME								
Dissolved Trace Metals								
Silver (Ag)	<0.0001	RAMB	0.0001	mg/L		30-SEP-05	MX	R330388
Aluminum (Al)	0.02		0.01	mg/L		30-SEP-05	MX	R330388
Arsenic (As)	0.0004		0.0004	mg/L		30-SEP-05	MX	R330388
Boron (B)	<0.05		0.05	mg/L		30-SEP-05	MX	R330388
Barium (Ba)	0.039		0.003	mg/L		30-SEP-05	MX	R330388
Beryllium (Be)	<0.001		0.001	mg/L		30-SEP-05	MX	R330388
Cadmium (Cd)	<0.0001		0.0001	mg/∟		30-SEP-05		R330388
Cobail (CO)	<0.002		0.002	mg/L		30-3EP-03		R330388
	<0.005		0.005	mg/L		30-SEP-05		R330300
Mercury (Ha)	~0.002		0.001	mg/L		30-SEP-05	MX	R330388
Lithium (Li)	0.007		0.0001	mg/L		30-SEP-05	MX	R330388
Molvbdenum (Mo)	<0.005		0.005	ma/L		30-SEP-05	MX	R330388
Nickel (Ni)	0.003		0.002	mg/L		30-SEP-05	MX	R330388
Lead (Pb)	<0.0001		0.0001	mg/L		30-SEP-05	MX	R330388
Antimony (Sb)	<0.0004		0.0004	mg/L		30-SEP-05	MX	R330388
Selenium (Se)	<0.0004		0.0004	mg/L		30-SEP-05	MX	R330388
Tin (Sn)	<0.05		0.05	mg/L		30-SEP-05	MX	R330388
Titanium (Ti)	0.001		0.001	mg/L		30-SEP-05	MX	R330388
Thallium (TI)	<0.0001		0.0001	mg/L		30-SEP-05	MX	R330388
Uranium (U)	0.0004		0.0001	mg/L		30-SEP-05	MX	R330388
Vanadium (V)	<0.001		0.001	mg/L		30-SEP-05	MX	R330388
Zinc (Zn)	0.004		0.002	mg/L		30-SEP-05	MX	R330388
Dissolved Major Metals	0.070		0.005	···· • //				Decose
Iron (Fe)	0.079		0.005	mg/∟		30-SEP-05	HAS	R330338
	0.002		0.001	mg/∟		30-3EF-00	паз	R330330
Total Traco Motals								
Silver (Aa)	<0.0004		0.0004	ma/L		30-SEP-05	MX	R330389
Aluminum (Al)	7.67		0.01	mg/L		30-SEP-05	MX	R330389
Arsenic (As)	0.0027		0.0004	mg/L		30-SEP-05	MX	R330389
Boron (B)	<0.05		0.05	mg/L		30-SEP-05	MX	R330389
Barium (Ba)	0.118		0.003	mg/L		30-SEP-05	MX	R330389
Beryllium (Be)	<0.001		0.001	mg/L		30-SEP-05	MX	R330389
Cadmium (Cd)	<0.0002		0.0002	mg/L		30-SEP-05	MX	R330389

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Extracted	Analyzed	By	Batch
L322074-7 STATION 2 Sample Date: 20 SEB 05								
Total Metals - CCMF								
Total Trace Metals								
Cobalt (Co)	<0.002		0.002	mg/L		30-SEP-05	MX	R330389
Chromium (Cr)	0.011		0.005	mg/L		30-SEP-05	MX	R330389
Copper (Cu)	0.007		0.001	mg/L		30-SEP-05	MX	R330389
Mercury (Hg)	<0.0002		0.0002	mg/L		30-SEP-05	MX	R330389
Lithium (Li)	0.01		0.01	mg/L		30-SEP-05	MX	R330389
Molybdenum (Mo)	<0.005		0.005	mg/L		30-SEP-05	MX	R330389
Nickel (Ni)	0.008		0.002	mg/L		30-SEP-05	MX	R330389
Lead (Pb)	0.0029		0.0001	mg/L		30-SEP-05	MX	R330389
Antimony (Sb)	< 0.0004		0.0004	mg/L		30-SEP-05	MX	R330389
Selenium (Se)	< 0.0004		0.0004	mg/L		30-SEP-05	MX	R330389
Tin (Sn) Titanium (Ti)	< 0.05		0.05	mg/L		30-SEP-05	MX	R330389
Thanium (TI)	0.103		0.001	mg/∟		30-SEP-05	IVIX	R330389
I naiium (II)	0.0001		0.0001	mg/L		30-3EP-03		R330389
Vanadium (V)	0.0007		0.0001	mg/L		30-3EP-03		R330309
$Z_{inc}(Z_n)$	0.025		0.001	mg/L		30-SEP-05	MX	P330380
Total Major Metals	0.021		0.004	ing/∟		50 OLI 00	IVIX	11000000
Calcium (Ca)	32.7		0.5	ma/L		30-SEP-05	HAS	R330341
Potassium (K)	3.3		0.1	ma/L		30-SEP-05	HAS	R330341
Magnesium (Mg)	10.2		0.1	mg/L		30-SEP-05	HAS	R330341
Sodium (Na)	6		1	mg/L		30-SEP-05	HAS	R330341
Iron (Fe)	5.90		0.005	mg/L		30-SEP-05	HAS	R330341
Manganese (Mn)	0.115		0.001	mg/L		30-SEP-05	HAS	R330341
Phosphorus, Total	0 143		0.001	ma/l		07-OCT-05	ті	R332886
Ammonia-N	0.021		0.001	mg/L		06-OCT-05	KMY	R332343
Total Organic Carbon	10		0.000	mg/L		07-OCT-05	701/	P332812
Routine Water Analysis - Low Level	19		'	ing/∟		07-001-05	2011	11352012
Chloride (Cl)	4		1	ma/l		30-SEP-05	WYA	R330298
Nitrate+Nitrite-N	<0.006		0.006	ma/l		30-SEP-05	SHC	R330437
Nitrate-N	<0.006		0.006	mg/L		30-SEP-05	SHC	R330437
Nitrite-N	0.002		0.000	mg/L		30-SEP-05	SHC	R330/37
Sulphate (SO4)	22.7		0.002	mg/L				D220576
pH Conductivity and Total Alkalinity	55.7		0.05	mg/∟		04-001-03	3000	11323370
pH	8.1		0.1	рH		30-SEP-05	PTT	R330158
Conductivity (EC)	253		0.2	uS/cm		30-SEP-05	PTT	R330158
Bicarbonate (HCO3)	104		5	mg/L		30-SEP-05	PTT	R330158
Carbonate (CO3)	<5		5	mg/L		30-SEP-05	PTT	R330158
Hydroxide (OH)	<5		5	mg/L		30-SEP-05	PTT	R330158
Alkalinity, Total (as CaCO3)	86		5	mg/L		30-SEP-05	PTT	R330158
Ion Balance Calculation								
Ion Balance	101			%		04-OCT-05		
TDS (Calculated)	136			mg/L		04-OCT-05		
Hardness (as CaCO3)	112			mg/L		04-OCT-05		
ICP metals for routine water	20.0		0.5	ma//		20 000 00	A1 157	Dagato
Calcium (Ca) Potassium (K)	30.2		0.5	mg/L		30-3EP-05		R330152
Magnesium (Mg)	1.0		0.1	mg/L		30-SEP-05		R330152
Sodium (Na)	9.0 6		1	ma/l		30-SEP-05		R330152
	5			g / ⊑			/ 11 1	1000102

Sample Details/Parameters	Result	Qualifier D.L.	Units	Extracted	Analyzed	By	Batch
L322074-6 STATION LA Sample Date: 20-SEP-05							
Dissolved Metals - CCME							
Dissolved Trace Metals							
Silver (Ag)	<0.0001	0.0001	mg/L		30-SEP-05	MX	R330388
Aluminum (Al)	0.31	0.01	mg/L		30-SEP-05	MX	R330388
Arsenic (As)	0.0018	0.0004	mg/L		30-SEP-05	MX	R330388
Boron (B)	<0.05	0.05	mg/L		30-SEP-05	MX	R330388
Barium (Ba)	0.059	0.003	mg/L		30-SEP-05	MX	R330388
Beryllium (Be)	<0.001	0.001	mg/L		30-SEP-05	MX	R330388
Cadmium (Cd)	<0.0001	0.0001	mg/L		30-SEP-05	MX	R330388
Cobalt (Co)	<0.002	0.002	mg/L		30-SEP-05	MX	R330388
Chromium (Cr)	<0.005	0.005	mg/L		30-SEP-05	MX	R330388
Copper (Cu)	0.005	0.001	mg/L		30-SEP-05	MX	R330388
Mercury (Hg)	< 0.0001	0.0001	mg/L		30-SEP-05	MX	R330388
Litnium (Li) Molutedonum (Ma)	0.007	0.003	mg/∟		30-SEP-05	MX	R330388
Nickel (Ni)	<0.005	0.005	mg/L		30-3EP-03		R330388
Nickei (Ni)	0.004	0.002	mg/L		30-3EP-03		R330300
Antimony (Sh)	0.0019	0.0001	mg/L		30-SEP-05	MX	P330388
Selenium (Se)	<0.0000	0.0004	mg/L		30-SEP-05	MX	R330388
Tin (Sn)	<0.004	0.0004	mg/L		30-SEP-05	MX	R330388
Titanium (Ti)	0.003	0.001	ma/l		30-SEP-05	MX	R330388
Thallium (TI)	<0.0001	0.0001	ma/L		30-SEP-05	MX	R330388
Uranium (U)	0.0005	0.0001	ma/L		30-SEP-05	MX	R330388
Vanadium (V)	0.002	0.001	mg/L		30-SEP-05	MX	R330388
Zinc (Zn)	0.009	0.002	mg/L		30-SEP-05	MX	R330388
Dissolved Major Metals			Ū				
Iron (Fe)	2.30	0.005	mg/L		30-SEP-05	HAS	R330338
Manganese (Mn)	0.099	0.001	mg/L		30-SEP-05	HAS	R330338
Total Metals - CCME							
Total Trace Metals							
Silver (Ag)	<0.0004	0.0004	mg/L		30-SEP-05	MX	R330389
Aluminum (Al)	6.66	0.01	mg/L		30-SEP-05	MX	R330389
Arsenic (AS)	0.0027	0.0004	mg/L		30-3EP-03		R330389
Borium (Ba)	< 0.05	0.05	mg/L		30-SEP-05		R330309
Benyllium (Be)	~0.001	0.003	mg/L		30-SEP-05	MX	P330380
Cadmium (Cd)	<0.001	0.001	mg/L		30-SEP-05	MX	R330389
Cobalt (Co)	<0.002	0.002	ma/L		30-SEP-05	MX	R330389
Chromium (Cr)	0.010	0.005	ma/L		30-SEP-05	MX	R330389
Copper (Cu)	0.007	0.001	mg/L		30-SEP-05	MX	R330389
Mercury (Hg)	<0.0002	0.0002	mg/L		30-SEP-05	MX	R330389
Lithium (Li)	0.01	0.01	mg/L		30-SEP-05	MX	R330389
Molybdenum (Mo)	<0.005	0.005	mg/L		30-SEP-05	MX	R330389
Nickel (Ni)	0.008	0.002	mg/L		30-SEP-05	MX	R330389
Lead (Pb)	0.0029	0.0001	mg/L		30-SEP-05	MX	R330389
Antimony (Sb)	<0.0004	0.0004	mg/L		30-SEP-05	MX	R330389
Selenium (Se)	<0.0004	0.0004	mg/L		30-SEP-05	MX	R330389
Tin (Sn)	<0.05	0.05	mg/L		30-SEP-05	MX	R330389
Titanium (Ti)	0.117	0.001	mg/L		30-SEP-05	MX	R330389
Thallium (TI)	0.0001	0.0001	mg/L		30-SEP-05	MX	R330389
Uranium (U)	0.0006	0.0001	mg/L		30-SEP-05	MX	R330389
Vanadium (V)	0.024	0.001	mg/L		30-SEP-05	MX	R330389

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Extracted	Analyzed	By	Batch
Sample Date: 20-SEP-05								
Matrix: WATER								
Total Metals - CCME								
Total Trace Metals								
Zinc (Zn)	0.020		0.004	mg/L		30-SEP-05	MX	R330389
Total Major Metals								
Calcium (Ca)	33.6		0.5	mg/L		30-SEP-05	HAS	R330341
Potassium (K)	3.0		0.1	mg/L		30-SEP-05	HAS	R330341
	10.5		0.1	mg/L		30-SEP-05	HAS	R330341
Iron (Fe)	/ 5.76		1	mg/L		30-SEP-05	HAS	R330341
Manganese (Mn)	5.76		0.005	mg/L		30-3EF-03	HAS	R330341
	0.110		0.001	ing/∟		50-0E1-05	TIAS	K330341
Phosphorus, Total	0.127		0.001	mg/L		07-OCT-05	TL	R332886
Ammonia-N	0.021		0.005	mg/L		06-OCT-05	KMY	R332343
Total Organic Carbon	20		1	mg/L		07-OCT-05	ZOW	R332812
Routine Water Analysis - Low Level								
Chloride (Cl)	4		1	mg/L		30-SEP-05	WYA	R330298
Nitrate+Nitrite-N	<0.006		0.006	mg/L		30-SEP-05	SHC	R330437
Nitrate-N	<0.006		0.006	mg/L		30-SEP-05	SHC	R330437
Nitrite-N	0.002		0.002	mg/L		30-SEP-05	SHC	R330437
Sulphate (SO4)	34.1		0.05	mg/L		04-OCT-05	JMU	R329576
pH, Conductivity and Total Alkalinity								
рн Constructivity (ГСС)	8.0		0.1	pH		30-SEP-05	PTT	R330158
Conductivity (EC)	248		0.2	uS/cm		30-SEP-05	PII	R330158
Carbonate (CO3)	101		5	mg/L		30-SEP-05	PII	R330158
Hydroxide (OH)	<0		5	mg/L		30-SEP-05		R330150
Alkalinity. Total (as CaCO3)	82		5	ma/l		30-SEP-05	PTT	R330158
Ion Balance Calculation	02							1000100
Ion Balance	101			%		04-OCT-05		
TDS (Calculated)	133			mg/L		04-OCT-05		
Hardness (as CaCO3)	111			mg/L		04-OCT-05		
ICP metals for routine water								
Calcium (Ca)	29.8		0.5	mg/L		30-SEP-05	AHY	R330152
Potassium (K)	1.0		0.1	mg/L		30-SEP-05	AHY	R330152
Sodium (No)	8.9		0.1	mg/L		30-SEP-05		R330152
	0		1	ing/∟		30-3LF-03	АПТ	K330132
L3220/4-9 STATION I B								
Dissolved Metals - CCME								
Dissolved Trace Metals								
Silver (Ag)	<0.0001	RAMB	0.0001	mg/L		30-SEP-05	MX	R330388
Aluminum (Al)	0.02		0.01	mg/L		30-SEP-05	MX	R330388
Arsenic (As)	0.0004		0.0004	mg/L		30-SEP-05	MX	R330388
Boron (B)	<0.05		0.05	mg/L		30-SEP-05	MX	R330388
Barium (Ba)	0.038		0.003	mg/L		30-SEP-05	MX	R330388
Beryllium (Be)	<0.001		0.001	mg/L		30-SEP-05	MX	R330388
Cabalt (Ca)	<0.0001		0.0001	mg/L		30-SEP-05	MX	R330388
Chromium (Cr)			0.002	mg/L		30-3EP-05		R330300
Copper (Cu)	0.005		0.005	ma/l		30-SEP-05	MX	R330388
	0.002		0.001				19173	1000000
	_	-	1		1	1		

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Extracted	Analyzed	By	Batch
L322074-9 STATION TB Sample Date: 20 SEP 05								
Dissolved Metals - CCMF								
Dissolved Trace Metals								
Mercury (Hg)	<0.0001		0.0001	mg/L		30-SEP-05	МХ	R330388
Lithium (Li)	0.007		0.003	mg/L		30-SEP-05	МХ	R330388
Molybdenum (Mo)	<0.005		0.005	mg/L		30-SEP-05	MX	R330388
Nickel (Ni)	0.003		0.002	mg/L		30-SEP-05	MX	R330388
Lead (Pb)	<0.0001		0.0001	mg/L		30-SEP-05	MX	R330388
Antimony (Sb)	0.0007		0.0004	mg/L		30-SEP-05	MX	R330388
Selenium (Se)	<0.0004		0.0004	mg/L		30-SEP-05	MX	R330388
Tin (Sn)	<0.05		0.05	mg/L		30-SEP-05	MX	R330388
	0.001		0.001	mg/L		30-SEP-05	MX	R330388
I hallium (11)	<0.0001		0.0001	mg/L		30-SEP-05	MX	R330388
Uranium (U)	0.0004		0.0001	mg/L		30-SEP-05		R330388
Variadium(v) Zipc (Zp)	<0.001		0.001	mg/L		30-3EF-03		R330300
	0.006		0.002	mg/∟		30-3LF-03	IVIA	K330300
Iron (Fe)	0.086		0.005	ma/l		30-SEP-05	HAS	R330338
Manganese (Mn)	0.005		0.001	ma/L		30-SEP-05	HAS	R330338
Total Metals - CCME	0.000		01001					
Total Trace Metals								
Silver (Ag)	<0.0004		0.0004	mg/L		30-SEP-05	MX	R330389
Aluminum (Al)	0.04		0.01	mg/L		30-SEP-05	MX	R330389
Arsenic (As)	0.0004		0.0004	mg/L		30-SEP-05	MX	R330389
Boron (B)	<0.05		0.05	mg/L		30-SEP-05	MX	R330389
Barium (Ba)	0.039		0.003	mg/L		30-SEP-05	MX	R330389
Beryllium (Be)	<0.001		0.001	mg/L		30-SEP-05	MX	R330389
Cadmium (Cd)	<0.0002		0.0002	mg/L		30-SEP-05	MX	R330389
Cobalt (Co)	<0.002		0.002	mg/L		30-SEP-05	MX	R330389
	<0.005		0.005	mg/L		30-3EP-03		R330389
Mercury (Hg)	0.003		0.001	mg/L		30-3EF-03		R330309
Lithium (Li)	<0.002		0.0002	mg/L		30-SEP-05	MX	R330389
Molybdenum (Mo)	<0.01		0.005	ma/l		30-SEP-05	MX	R330389
Nickel (Ni)	0.003		0.002	ma/L		30-SEP-05	MX	R330389
Lead (Pb)	0.0001		0.0001	mg/L		30-SEP-05	MX	R330389
Antimony (Sb)	<0.0004		0.0004	mg/L		30-SEP-05	MX	R330389
Selenium (Se)	<0.0004		0.0004	mg/L		30-SEP-05	MX	R330389
Tin (Sn)	<0.05		0.05	mg/L		30-SEP-05	MX	R330389
Titanium (Ti)	0.002		0.001	mg/L		30-SEP-05	MX	R330389
Thallium (TI)	<0.0001		0.0001	mg/L		30-SEP-05	MX	R330389
Uranium (U)	0.0004		0.0001	mg/L		30-SEP-05	MX	R330389
Vanadium (V)	<0.001		0.001	mg/L		30-SEP-05	MX	R330389
Zinc (Zn)	<0.004		0.004	mg/L		30-SEP-05	MX	R330389
Total Major Metals	01.0		0.5					D000044
Calcium (Ca)	31.9		0.5	mg/L		30-5EP-05	HAS	K330341
r Ulassium (Ma)	1.1		0.1	mg/L		30-3EP-03		R330341
Sodium (Na)	9.0		1	mg/L		30-SEP-05	HAG	R330341
Iron (Fe)	0.093		0.005	ma/l		30-SEP-05	HAS	R330341
Manganese (Mn)	0.005		0.001	ma/L		30-SEP-05	HAS	R330341
	0.000							

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Extracted	Analyzed	By	Batch
Sample Date: 22 SEP 05								
Dissolved Metals - CCMF								
Dissolved Trace Metals								
Silver (Ag)	<0.0001	RAMB	0.0001	mg/L		30-SEP-05	MX	R330388
Aluminum (Al)	<0.01		0.01	mg/L		30-SEP-05	MX	R330388
Arsenic (As)	<0.0004		0.0004	mg/L		30-SEP-05	MX	R330388
Boron (B)	0.51		0.05	mg/L		30-SEP-05	MX	R330388
Barium (Ba)	0.006		0.003	mg/L		30-SEP-05	MX	R330388
Beryllium (Be)	<0.001		0.001	mg/L		30-SEP-05	MX	R330388
Cadmium (Cd)	<0.0001		0.0001	mg/L		30-SEP-05	MX	R330388
Cobalt (Co)	<0.002		0.002	mg/L		30-SEP-05	MX	R330388
Chromium (Cr)	<0.005		0.005	mg/L		30-SEP-05	MX	R330388
Copper (Cu)	0.001		0.001	mg/L		30-SEP-05	MX	R330388
Mercury (Hg)	<0.0001		0.0001	mg/L		30-SEP-05	MX	R330388
Litnium (Li) Maktedarum (Max)	0.033		0.003	mg/∟		30-SEP-05	MX	R330388
Molybdenum (Nio)	< 0.005		0.005	mg/L		30-SEP-05	MX	R330388
	<0.002		0.002	mg/∟		30-SEP-05		R330388
Antimony (Sh)	<0.0001		0.0001	mg/L		30-SEP-05		R330300
Selenium (Se)	0.0004		0.0004	mg/L		30-SEP-05	MX	P330388
Tin (Sp)	<0.05		0.0004	mg/L		30-SEP-05	MX	R330388
Titanium (Ti)	<0.00		0.001	mg/L		30-SEP-05	MX	R330388
Thallium (TI)	<0.0001		0.0001	ma/L		30-SEP-05	MX	R330388
Uranium (U)	0.0008		0.0001	ma/L		30-SEP-05	MX	R330388
Vanadium (V)	<0.001		0.001	ma/L		30-SEP-05	MX	R330388
Zinc (Zn)	0.010		0.002	mg/L		30-SEP-05	MX	R330388
Dissolved Major Metals				0				
Iron (Fe)	<0.005		0.005	mg/L		30-SEP-05	HAS	R330338
Manganese (Mn)	0.014		0.001	mg/L		30-SEP-05	HAS	R330338
Total Metals - CCME								
Total Trace Metals								
Silver (Ag)	<0.0004		0.0004	mg/L		30-SEP-05	MX	R330389
	0.01		0.01	mg/L		30-SEP-05	MX	R330389
Arsenic (As)	<0.0004		0.0004	mg/∟ ma/l		30-SEP-05		R330389
Borium (Ba)	0.39		0.05	mg/L		30-3EP-03		R330389
Bendlium (Be)	0.007		0.003	mg/L		30-3LF-03		P320369
Cadmium (Cd)	<0.001		0.001	mg/L		30-SEP-05	MX	R330380
Cobalt (Co)	<0.0002		0.002	ma/l		30-SEP-05	MX	R330389
Chromium (Cr)	<0.005		0.005	ma/L		30-SEP-05	MX	R330389
Copper (Cu)	0.002		0.001	mg/L		30-SEP-05	MX	R330389
Mercury (Hg)	<0.0002		0.0002	mg/L		30-SEP-05	MX	R330389
Lithium (Li)	0.04		0.01	mg/L		30-SEP-05	MX	R330389
Molybdenum (Mo)	<0.005		0.005	mg/L		30-SEP-05	MX	R330389
Nickel (Ni)	<0.002		0.002	mg/L		30-SEP-05	MX	R330389
Lead (Pb)	0.0004		0.0001	mg/L		30-SEP-05	MX	R330389
Antimony (Sb)	<0.0004		0.0004	mg/L		30-SEP-05	MX	R330389
Selenium (Se)	0.0006		0.0004	mg/L		30-SEP-05	MX	R330389
Tin (Sn)	<0.05		0.05	mg/L		30-SEP-05	MX	R330389
Titanium (Ti)	0.001		0.001	mg/L		30-SEP-05	MX	R330389
Thallium (TI)	<0.0001		0.0001	mg/L		30-SEP-05	MX	R330389
Uranium (U)	0.0008		0.0001	mg/L		30-SEP-05	MX	R330389
Vanadium (V)	<0.001		0.001	mg/L		30-SEP-05	MX	R330389

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Extracted	Analyzed	By	Batch
L322074-10 STATION 4 Sample Date: 22 SEP 05								
Matrix: WAIER								
Total Trace Metals								
Zinc (Zn)	0.008		0.004	ma/L		30-SEP-05	МХ	R330389
Total Major Metals	0.000		0.001					
Calcium (Ca)	414		0.5	mg/L		30-SEP-05	HAS	R330341
Potassium (K)	4.6		0.1	mg/L		30-SEP-05	HAS	R330341
Magnesium (Mg)	179		0.1	mg/L		30-SEP-05	HAS	R330341
Sodium (Na)	49		1	mg/L		30-SEP-05	HAS	R330341
Iron (Fe)	0.051		0.005	mg/L		30-SEP-05	HAS	R330341
Manganese (Mn)	0.019		0.001	mg/L		30-SEP-05	HAS	R330341
Phosphorus, Total	0.008		0.001	ma/L		07-OCT-05	ΤL	R332886
Ammonia-N	<0.005		0.005	ma/l		06-OCT-05	KMY	R332343
Total Organic Carbon	3		1	ma/l		07-OCT-05	70\\/	R332812
Routine Water Analysis - Low Level	5		'				2000	
Chloride (Cl)	64		1	ma/l		30-SEP-05		R330298
Nitrate+Nitrite-N	~0.006		0.006	mg/L		30-SEP-05	SHC	R330437
Nitrate-N	<0.006		0.000	mg/L		30-SEP-05	SHC	R330/137
Nitrito-N	<0.000		0.000	mg/L		30 SEP 05	SHC	R330437
Sulphoto (SO4)	<0.002		0.002	mg/L		30-3EF-03		R330437
Suprate (SO4)	1470		0.05	mg/∟		04-001-05	3000	R329576
pH, Conductivity and Total Alkannity	8.1		0.1	nH		30-SEP-05	PTT	R330158
Conductivity (EC)	2820		0.1	uS/cm		30-SEP-05	PTT	R330158
Bicarbonate (HCO3)	260		5	ma/l		30-SEP-05	PTT	R330158
Carbonate (CO3)	<5		5	ma/l		30-SEP-05	PTT	R330158
Hvdroxide (OH)	<5		5	ma/L		30-SEP-05	PTT	R330158
Alkalinity, Total (as CaCO3)	213		5	mg/L		30-SEP-05	PTT	R330158
Ion Balance Calculation			-	Ū				
Ion Balance	98.4			%		04-OCT-05		
TDS (Calculated)	2280			mg/L		04-OCT-05		
Hardness (as CaCO3)	1700			mg/L		04-OCT-05		
ICP metals for routine water								
Calcium (Ca)	395		0.5	mg/L		30-SEP-05	AHY	R330152
Potassium (K)	4.0		0.1	mg/L		30-SEP-05	AHY	R330152
Magnesium (Mg)	173		0.1	mg/L		30-SEP-05	AHY	R330152
Sodium (Na)	47		1	mg/L		30-SEP-05	AHY	R330152
L322074-11 STATION 8								
Matrix: WATER								
Dissolved Metals - CCMF								
Dissolved Trace Metals								
Silver (Ag)	<0.0001	RAMB	0.0001	mg/L		30-SEP-05	MX	R330388
Aluminum (Al)	0.02		0.01	mg/L		30-SEP-05	MX	R330388
Arsenic (As)	<0.0004		0.0004	mg/L		30-SEP-05	MX	R330388
Boron (B)	<0.05		0.05	mg/L		30-SEP-05	MX	R330388
Barium (Ba)	0.043		0.003	mg/L		30-SEP-05	MX	R330388
Beryllium (Be)	<0.001		0.001	mg/L		30-SEP-05	MX	R330388
Cadmium (Cd)	<0.0001		0.0001	mg/L		30-SEP-05	MX	R330388
Cobalt (Co)	<0.002		0.002	mg/L		30-SEP-05	MX	R330388
Chromium (Cr)	<0.005		0.005	mg/L		30-SEP-05	MX	R330388
Copper (Cu)	0.002		0.001	mg/L		30-SEP-05	MX	R330388

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Extracted	Analyzed	By	Batch
L3220/4-11 STATION 8								
Matrix: WATER								
Dissolved Trace Metals								
Mercury (Ha)	<0.0001		0.0001	ma/l		30-SEP-05	МХ	R330388
Lithium (Li)	0.005		0.003	ma/L		30-SEP-05	MX	R330388
Molybdenum (Mo)	<0.005		0.005	mg/L		30-SEP-05	MX	R330388
Nickel (Ni)	<0.002		0.002	mg/L		30-SEP-05	MX	R330388
Lead (Pb)	<0.0001		0.0001	mg/L		30-SEP-05	MX	R330388
Antimony (Sb)	<0.0004		0.0004	mg/L		30-SEP-05	MX	R330388
Selenium (Se)	<0.0004		0.0004	mg/L		30-SEP-05	MX	R330388
Tin (Sn)	<0.05		0.05	mg/L		30-SEP-05	MX	R330388
Titanium (Ti)	0.001		0.001	mg/L		30-SEP-05	MX	R330388
Thallium (TI)	<0.0001		0.0001	mg/L		30-SEP-05	MX	R330388
Uranium (U)	0.0004		0.0001	mg/L		30-SEP-05	MX	R330388
Vanadium (V)	<0.001		0.001	mg/L		30-SEP-05	MX	R330388
	0.004		0.002	mg/L		30-SEP-05	MX	R330388
Dissolved Major Metals	0.024		0.005	~~~/l			1140	D000000
Manganese (Mn)	0.034		0.005	mg/L		30-3EP-03	HAS	R330338
	<0.001		0.001	mg/∟		30-3EF-03	паз	K330330
Total Trace Metals								
Silver (Ag)	<0.0004		0.0004	mg/L		30-SEP-05	MX	R330389
Aluminum (Al)	1.63		0.01	mg/L		30-SEP-05	MX	R330389
Arsenic (As)	0.0008		0.0004	mg/L		30-SEP-05	MX	R330389
Boron (B)	<0.05		0.05	mg/L		30-SEP-05	MX	R330389
Barium (Ba)	0.061		0.003	mg/L		30-SEP-05	MX	R330389
Beryllium (Be)	<0.001		0.001	mg/L		30-SEP-05	MX	R330389
Cadmium (Cd)	<0.0002		0.0002	mg/L		30-SEP-05	MX	R330389
Cobalt (Co)	<0.002		0.002	mg/L		30-SEP-05	MX	R330389
Chromium (Cr)	<0.005		0.005	mg/L		30-SEP-05	MX	R330389
Copper (Cu)	0.003		0.001	mg/L		30-SEP-05	MX	R330389
Mercury (Hg)	<0.0002		0.0002	mg/L		30-SEP-05	MX	R330389
Lithium (Li)	<0.01		0.01	mg/L		30-SEP-05	MX	R330389
Niekel (Ni)	<0.005		0.005	mg/∟		30-3EP-03		R330389
	0.003		0.002	mg/L		30-3EF-03		R330309
Antimony (Sb)	0.0007		0.0001	mg/L		30-SEP-05		R330380
Selenium (Se)	<0.0014		0.0004	mg/L		30-SEP-05	MX	R330389
Tin (Sn)	<0.05		0.05	ma/L		30-SEP-05	MX	R330389
Titanium (Ti)	0.044		0.001	mg/L		30-SEP-05	MX	R330389
Thallium (TI)	<0.0001		0.0001	mg/L		30-SEP-05	MX	R330389
Uranium (U)	0.0005		0.0001	mg/L		30-SEP-05	MX	R330389
Vanadium (V)	0.005		0.001	mg/L		30-SEP-05	MX	R330389
Zinc (Zn)	0.005		0.004	mg/L		30-SEP-05	MX	R330389
Total Major Metals								
Calcium (Ca)	30.1		0.5	mg/L		30-SEP-05	HAS	R330341
Potassium (K)	1.7		0.1	mg/L		30-SEP-05	HAS	R330341
Magnesium (Mg)	7.4		0.1	mg/L		30-SEP-05	HAS	R330341
Sodium (Na)	8		1	mg/L		30-SEP-05	HAS	R330341
	1.20		0.005	mg/L		30-SEP-05	HAS	R330341
ivianganese (Min)	0.018		0.001	mg/L		30-SEP-05	HAS	R330341
Dhospharup, Tatal	0.000		0.001	ma//			T 1	Daaaaaa
Filosphorus, Total	0.033		0.001	mg/∟		07-001-05	1 L	KJJ2880

Sample Details	s/Parameters	Result	Qualifier	D.L.	Units	Extracted	Analyzed	By	Batch
1 322074-11	STATION 8								
Sample Date:	22-SEP-05								
Matrix	WATER								
Matrix.									
	Ammonia-N	0.006		0.005	mg/L		06-OCT-05	KMY	R332343
	Total Organic Carbon	9		1	mg/L		07-OCT-05	ZOW	R332812
Routine V	Vater Analysis - Low Level								
	Chloride (CI)	9		1	mg/L		30-SEP-05	WYA	R330298
	Nitrate+Nitrite-N	0.022		0.006	mg/L		30-SEP-05	SHC	R330437
	Nitrate-N	0.022		0.006	mg/L		30-SEP-05	SHC	R330437
	Nitrite-N	<0.002		0.002	mg/L		30-SEP-05	SHC	R330437
	Sulphate (SO4)	26.4		0.05	mg/L		04-OCT-05	JWU	R329576
pH, Con	ductivity and Total Alkalinity								_
	pH	8.1		0.1	pH		30-SEP-05	PTT	R330158
	Conductivity (EC)	248		0.2	uS/cm		30-SEP-05	PII	R330158
	Bicarbonate (FCO3)	100		5	mg/L		30-3EP-03	PTT	R330158
	Hydroxide (OH)	<5		5	ma/L		30-SEP-05	PTT	R330156
	Alkalinity. Total (as CaCO3)	82		5	ma/L		30-SEP-05	PTT	R330158
Ion Bala	nce Calculation	02		Ũ					1000100
	Ion Balance	97.9			%		04-OCT-05		
	TDS (Calculated)	130			mg/L		04-OCT-05		
	Hardness (as CaCO3)	101			mg/L		04-OCT-05		
ICP met	als for routine water								
	Calcium (Ca)	28.7		0.5	mg/L		30-SEP-05	AHY	R330152
	Potassium (K)	1.1		0.1	mg/L		30-SEP-05	AHY	R330152
	Magnesium (Mg)	7.1		0.1	mg/L		30-SEP-05		R330152
1000074.40		0		1	mg/∟		30-3LF-03	АПТ	K330152
L322074-12									
Sample Date:	22-SEP-05								
Matrix:									
Dissolve	ed Trace Metals								
Diocont	Silver (Ag)	<0.0001	RAMB	0.0001	mg/L		30-SEP-05	MX	R330388
	Aluminum (Al)	<0.01		0.01	mg/L		30-SEP-05	MX	R330388
	Arsenic (As)	<0.0004		0.0004	mg/L		30-SEP-05	MX	R330388
	Boron (B)	0.20		0.05	mg/L		30-SEP-05	MX	R330388
	Barium (Ba)	0.028		0.003	mg/L		30-SEP-05	MX	R330388
	Beryllium (Be)	<0.001		0.001	mg/L		30-SEP-05	MX	R330388
	Cadmium (Cd)	<0.0001		0.0001	mg/L		30-SEP-05	MX	R330388
	Cobalt (Co)	<0.002		0.002	mg/L		30-SEP-05	MX	R330388
	Connomium (Cr)	< 0.005		0.005	mg/L		30-SEP-05	MX	R330388
	Copper (Cu) Moreury (Ha)	<0.001		0.001	mg/L		30-3EP-03		K330388
	Lithium (Li)	<0.0001		0.0001	ma/L		30-SEP-05		R330388
	Molybdenum (Mo)	<0.000		0.005	ma/l		30-SEP-05	MX	R330388
	Nickel (Ni)	0.008		0.002	ma/L		30-SEP-05	MX	R330388
	Lead (Pb)	0.0003		0.0001	mg/L		30-SEP-05	MX	R330388
	Antimony (Sb)	<0.0004		0.0004	mg/L		30-SEP-05	MX	R330388
	Selenium (Se)	0.0006		0.0004	mg/L		30-SEP-05	MX	R330388
	Tin (Sn)	<0.05		0.05	mg/L		30-SEP-05	MX	R330388
	Titanium (Ti)	<0.001		0.001	mg/L		30-SEP-05	MX	R330388
	Thallium (TI)	0.0009		0.0001	mg/L		30-SEP-05	MX	R330388
	Uranium (U)	0.0056		0.0001	mg/L		30-SEP-05	MX	R330388

L32074-12 STATION 5 Sample Dai: 22-SEP-05 Matrix: WATER Dissolved Metals - COME Dissolved Major Metals Dissolved Major Metals Come Train Metals Infor (Fe) 40.005 Magnetic Major Metals Infor (Fe) 40.004 Magnetic Major Metals Infor (Fe) 40.002 Magnetic Major Metals Infor (Fe) 40.005 Magnetic Major Metals Infor (Fe) 40.005 Magn	Sample Details/Parameters	Result	Qualifier D.L.	Units	Extracted	Analyzed	By	Batch
Lazzimiz da: 258-r.6. Marin: WATER Dissolved frace Metals Communit(N) -0.001 0.001 mg/L Zinc (Zi) 0.002 mg/L Zinc (Zi) 0.002 mg/L Zinc (Zi) 0.002 mg/L Sissolved Matals - CCME Dissolved frace Metals Tran Transmission (M) -0.001 0.001 mg/L Sissolved Matals - CCME Transmission (M) -0.001 0.001 mg/L Sissolved Matals - CCME Transmission (M) -0.001 0.001 mg/L Sissolved Matals - CCME Transmission (M) -0.002 0.001 mg/L Sissolved Matals - CCME Dissolved Matals - CCME Transmission (M) -0.001 0.001 mg/L Sissolved Matals - CCME Transmission (M) -0.002 0.001 mg/L Sissolved Matals - CCME Dissolved Matals - CCME Transmission (M) -0.002 0.001 mg/L Sissolved Matals - CCME Dissolved Matals - CCME Dissolved Matals - CCME Dissolved Matals - CCME Transmission (M) -0.002 0.001 mg/L Sissolved Matals - CCME Dissolved Mitheles - CCME Dissolved Matals -								
Comparison Dissolution Control	L322074-12 STATION 5 Sample Date: 22 SEP 05							
Matters CVM IC P Dissolved trace Metals Matters COL Matters Matters Col Col Matters Col Col <thcol< th=""></thcol<>								
Dissolved Tracs March o <	Dissolved Metals - CCME							
Zero (Zn) 0.001 0.002 mgL 30-SEP.05 MA R330388 Dissolved Major Major 0.002 0.002 mgL 30-SEP.05 MA R330388 Dissolved Major Major 0.001 0.001 mgL 30-SEP.05 MA R330388 Total Metals - CCME 0.001 mgL 30-SEP.05 HAS R330388 Total Metals - CCME 0.004 mgL 0.20CT.06 CLL R33742 Ausminum (A) 0.022 0.01 mgL 0.20CT.06 CLL R33742 Ausminum (A) 0.02 0.004 mgL 0.20CT.06 CLL R33742 Barium (Ea) 0.031 0.003 mgL 0.20CT.06 CLL R33742 Cadmium (Ca) -0.002 0.002 0.002 mgL 0.20CT.06 CLL R33742 Cadmium (Ca) -0.002 0.002 0.002 mgL 0.20CT.06 CLL R33742 Cadmium (Ca) -0.004 0.001 mgL 0.20CT.06	Dissolved Metals - COME Dissolved Trace Metals							
Zinc (Zn) 0.023 0.022 mgL 30-SEP-06 HAR R330388 Dissolved Mary Metals -0.005 0.001 0.001 mgL 30-SEP-05 HAR R330388 Total Metals - CCME -0.0004 0.001 mgL 30-SEP-05 HAR R330388 Total Metals - CCME -0.0004 0.0004 mgL 02-OCT-85 CLL R330742 Ansmin (A) 0.02 0.011 mgL 02-OCT-86 CLL R330742 Baron (B) 0.18 0.004 mgL 02-OCT-86 CLL R330742 Baron (B) 0.18 0.005 mgR 02-OCT-86 CLL R330742 Cashrium (Ba) -0.002 0.002 mgL 02-OCT-86 CLL R330742 Cashrium (Ba) -0.001 0.001 mgL 02-OCT-86 CLL R330742 Cashrium (Ba) -0.002 0.002 mgL 02-OCT-86 CLL R330742 Cashrium (Ca) -0.002 0.002 mgL 02-OCT-86 CLL R330742	Vanadium (V)	< 0.001	0.001	ma/L		30-SEP-05	МХ	R330388
Dissolved Major Matis Inon IFe0	Zinc (Zn)	0.023	0.002	ma/L		30-SEP-05	MX	R330388
Iron (Fo) -0.005 0.001 0.001 mgL 30-SEP-05 HAS R330388 Total Matas - COME - R303742 - </td <td>Dissolved Major Metals</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Dissolved Major Metals							
Manganese (Mn) 0.001 0.001 mg/L 32-SEP-05 HAS R330338 Total Areace Metals	Iron (Fe)	<0.005	0.005	mg/L		30-SEP-05	HAS	R330338
Total Medias - COME	Manganese (Mn)	0.001	0.001	mg/L		30-SEP-05	HAS	R330338
Total Trace Metals σ ngl. 0.2001 ngl. 0.20CTr.65 CLL R33742 Aluminum (Al) 0.02 0.01 mgl. 0.20CTr.65 CLL R33742 Arsenic (As) -0.0004 0.0004 mgl. 0.20CTr.65 CLL R33742 Barium (Ba) 0.031 0.003 mgl. 0.20CTr.65 CLL R33742 Cadmium (Ca) -0.002 0.000 mgl. 0.20CTr.65 CLL R33742 Cadmium (Ca) -0.002 0.000 mgl. 0.20CTr.65 CLL R33742 Cadmium (Ca) -0.002 0.002 mgl. 0.20CTr.65 CLL R33742 Chromum (Cr) -0.002 0.002 mgl. 0.20CTr.65 CLL R33742 Lithium (U) 0.04 0.01 mgl. 0.20CTr.65 CLL R33742 Lithium (Mb) -0.05 0.005 mgl. 0.20CTr.65 CLL R33742 Lithium (Mb) 0.007 0.002 mgl. <	Total Metals - CCME							
Silver (Ag) -0.0004 mg/L (22-001-8) CLL R330742 Akraenic (As) -0.0004 0.0004 mg/L (22-00T-65 CLL R330742 Boron (B) 0.18 0.003 mg/L (22-00T-65 CLL R330742 Barium (Ba) 0.011 0.003 mg/L (22-00T-65 CLL R330742 Cadmium (Cd) -0.0002 0.0002 mg/L (22-00T-65 CLL R330742 Cobatt (Co) -0.002 0.002 mg/L (22-00T-65 CLL R330742 Cobatt (Co) -0.002 0.002 mg/L (22-00T-65 CLL R330742 Cobatt (Co) -0.001 0.001 mg/L (22-00T-65 CLL R330742 Molydenum (Mo) -0.005 0.0001 mg/L (22-00T-65 CLL R330742 Lithium (Li) 0.04 0.011 mg/L (22-00T-65 CLL R330742 Lithium (Mo) -0.005 0.0001 mg/L (22-00T-65 CL	Total Trace Metals							
Autminum (A) 0.02 0.01 mg/L 0.20C1-05 CLL R330742 Boron (B) 0.18 0.05 mg/L 0.20CT-05 CLL R330742 Barnium (Ba) 0.031 0.003 mg/L 0.20CT-05 CLL R330742 Barnium (Ca) -0.0002 0.0002 mg/L 0.20CT-05 CLL R330742 Cadmium (Cd) -0.0002 0.0002 mg/L 0.20CT-05 CLL R330742 Chornium (Cr) -0.005 0.006 mg/L 0.20CT-05 CLL R330742 Copper (Cu) -0.001 0.001 mg/L 0.20CT-05 CLL R330742 Mercury (Hg) -0.005 0.005 mg/L 0.20CT-05 CLL R330742 Nickle (N) 0.007 0.002 mg/L 0.20CT-05 CLL R330742 Nickle (N) 0.007 0.001 mg/L 0.20CT-05 CLL R330742 Nickle (N) 0.001 0.004 mg/L 0.20CT-05 CL	Silver (Ag)	<0.0004	0.0004	mg/L		02-OC1-05	CLL	R330742
Atsette (rs/s) 30,0004 0,0004 mgL 020C1-05 CLL R330742 Barium (Ba) 0,031 0,003 mgL 022CT-05 CLL R330742 Barium (Ca) -0,0002 0,0002 mgL 022CT-05 CLL R330742 Cadmium (Cd) -0,0002 0,0002 mgL 022CT-05 CLL R330742 Chomium (Cr) -0,0002 0,0002 mgL 022CT-05 CLL R330742 Chomium (Cr) -0,0002 0,0002 mgL 022CT-05 CLL R330742 Chomium (Cr) -0,001 0,001 mgL 022CT-05 CLL R330742 Mercury (Hg) -0,0002 0,0002 mgL 022CT-05 CLL R330742 Lithium (Li) 0.044 0.01 mgL 022CT-05 CLL R330742 Molybdenum (Mo) -0.005 0.005 mgL 022CT-05 CLL R330742 Lead (Pb) 0,0001 0,0004 mgL 022CT-05 <td< td=""><td>Aluminum (Al)</td><td>0.02</td><td>0.01</td><td>mg/L</td><td></td><td>02-OCT-05</td><td>CLL</td><td>R330742</td></td<>	Aluminum (Al)	0.02	0.01	mg/L		02-OCT-05	CLL	R330742
Buth (p) 0.13 0.03 mgL 0.2001-05 CLL R30742 Berylium (Be) -0.001 0.001 mgL 02-0CT-05 CLL R30742 Cadmium (Ca) -0.0002 0.002 mgL 02-0CT-06 CLL R30742 Chomium (Cr) -0.0002 0.002 mgL 02-0CT-06 CLL R330742 Chomium (Cr) -0.001 0.001 0.001 mgL 02-0CT-06 CLL R330742 Chomium (Cr) -0.002 0.0002 mgL 02-0CT-06 CLL R330742 Mercury (Hg) -0.0002 0.0002 mgL 02-0CT-05 CLL R330742 Molydenum (Mo) -0.005 0.005 mgL 02-0CT-06 CLL R330742 Nickel (Ni) 0.0007 0.005 mgL 02-0CT-05 CLL R330742 Animony (Sb) -0.0004 0.001 mgL 02-0CT-06 CLL R330742 Tine (Sn) -0.001 0.001 mgL 02-0CT-	Arsenic (As)	<0.0004	0.0004	mg/L		02-0CT-05	CLL	R330742
Lation (Lay) 0.031 0.030 mgl, D2-011-02 CLL R30742 Beryllim (Be) -0.001 -0.002 0.0022 mgl, D2-0CT-05 CLL R30742 Cobalt (Co) -0.002 0.005 mgl, D2-0CT-05 CLL R30742 Cobalt (Co) -0.001 0.001 0.001 D2-0CT-05 CLL R30742 Copper (Cu) -0.0002 0.0002 mgl, D2-0CT-05 CLL R30742 Mercury (Hg) -0.0002 0.0005 0.005 mgl, D2-0CT-05 CLL R30742 Lithium (Ib) 0.04 0.01 mgl, D2-0CT-05 CLL R30742 Lead (Pb) 0.0007 0.002 mgl, D2-0CT-05 CLL R30742 Lead (Pb) 0.0001 0.0004 mgl, D2-0CT-05 CLL R30742 Tinimony (Sb) -0.0004 0.0004 mgl, D2-0CT-05 CLL R30742 Trainum (Ti) 0.0011 0.0001	Barium (Ba)	U. IX	0.05	mg/L		02-001-05		R330/42
Learnium (Cd) Count	Bervilium (Be)		0.003	ma/L		02-001-05	CLL	R330742
Cobait (Co) Cobait (Co) <thcobait (co)<="" th=""> <thcobait (co)<="" th=""></thcobait></thcobait>	Cadmium (Cd)	<0.001	0.001	ma/l		02-OCT-05	CLL	R330742
Chromium (Cr) -0.005 0.005 mg/L 02-0CT-95 CLL R330742 Capper (Cu) -0.001 0.001 0.001 0.002 mg/L 02-0CT-95 CLL R330742 Mercury (Hg) -0.0002 0.0002 mg/L 02-0CT-95 CLL R330742 Lithium (Li) 0.04 0.01 mg/L 02-0CT-95 CLL R330742 Mohybenum (Mo) -0.005 0.005 mg/L 02-0CT-95 CLL R330742 Nickel (Ni) 0.007 0.002 mg/L 02-0CT-95 CLL R330742 Lead (Pb) 0.0005 0.0001 mg/L 02-0CT-95 CLL R330742 Tintimium (Sb) -0.0010 0.0004 mg/L 02-0CT-95 CLL R330742 Thalium (Ti) 0.0010 0.0001 mg/L 02-0CT-95 CLL R330742 Vanadum (V) -0.001 0.001 mg/L 02-0CT-95 CLL R330742 Vanadum (V) -0.005 0.001	Cobalt (Co)	<0.002	0.002	ma/L		02-OCT-05	CLL	R330742
Copper (Cu) -0.001 mgL 02-0CT-05 CLL R330742 Mercury (Hg) <0.0002	Chromium (Cr)	<0.005	0.005	ma/L		02-OCT-05	CLL	R330742
Mercury (Hg) <0.0002 0.0002 mg/L 02-OCT-05 CLL R330742 Lithium (Li) 0.04 0.01 mg/L 02-OCT-05 CLL R330742 Molybdenum (Mo) -0.005 0.005 mg/L 02-OCT-05 CLL R330742 Nickel (Ni) 0.007 0.002 mg/L 02-OCT-05 CLL R330742 Lead (Pb) 0.0005 0.0001 mg/L 02-OCT-05 CLL R330742 Antimory (Sb) -0.0004 0.0004 mg/L 02-OCT-05 CLL R330742 Tin (Sn) -0.0010 0.0004 mg/L 02-OCT-05 CLL R330742 Thalium (Ti) 0.0010 0.001 mg/L 02-OCT-05 CLL R330742 Vanadum (V) -0.001 0.001 mg/L 02-OCT-05 CLL R330742 Vanadum (V) -0.0062 0.001 mg/L 02-OCT-05 CLL R330742 Vanadum (V) -0.0062 0.001 mg/L 02-OCT-05	Copper (Cu)	<0.001	0.001	mg/L		02-OCT-05	CLL	R330742
Lithium (L) 0.04 0.01 mg/L 02-0CT-05 CLL R330742 Molybadenum (Mo) <0.005	Mercury (Hg)	<0.0002	0.0002	mg/L		02-OCT-05	CLL	R330742
Motybdenum (Mo) <0.005 0.005 mg/L 02-0CT-05 CLL R330742 Nickel (Ni) 0.007 0.002 mg/L 02-0CT-05 CLL R330742 Lead (Pb) 0.0005 0.0001 mg/L 02-0CT-05 CLL R330742 Antimony (Sb) <0.0004	Lithium (Li)	0.04	0.01	mg/L		02-OCT-05	CLL	R330742
Nickel (Ni) 0.007 0.002 mg/L 02-0CT-05 CLL R330742 Lead (Pb) 0.0005 0.0001 mg/L 02-0CT-05 CLL R330742 Antimony (Sb) -0.0004 0.0004 0.0024 02-0CT-05 CLL R330742 Selenium (Se) 0.0010 0.0004 mg/L 02-0CT-05 CLL R330742 Tin (Sn) <0.05	Molybdenum (Mo)	<0.005	0.005	mg/L		02-OCT-05	CLL	R330742
Lead (Pb) 0.0005 0.0001 mg/L 02-OCT-05 CLL R330742 Antimony (Sb) -0.0004 0.0004 mg/L 02-OCT-05 CLL R330742 Antimony (Sb) -0.0004 0.0004 mg/L 02-OCT-05 CLL R330742 Tins (Sn) -0.05 0.05 mg/L 02-OCT-05 CLL R330742 Titanium (Ti) 0.001 0.001 mg/L 02-OCT-05 CLL R330742 Uranium (U) 0.0010 0.001 mg/L 02-OCT-05 CLL R330742 Zinc (Zn) 0.001 0.001 mg/L 02-OCT-05 CLL R330742 Galcum (Ca) 2.001 0.01 mg/L 02-OCT-05 CLL R330742 Magnesim (Mg) 12.3 0.01 mg/L 02-OCT-05 CLL R330742 Magnesim (Mg) 12.3 0.1 mg/L 02-OCT-05 CLL R330742 Magnesim (Mg) 12.3 0.1 mg/L 02-OCT-05 CLL<	Nickel (Ni)	0.007	0.002	mg/L		02-OCT-05	CLL	R330742
Antimony (Sb) -0.0004 0.0004 mg/L 02-0CT-05 CLL R330742 Selenium (Se) 0.0010 0.0004 mg/L 02-0CT-05 CLL R330742 Tin (Sn) <0.05	Lead (Pb)	0.0005	0.0001	mg/L		02-OCT-05	CLL	R330742
Selenium (Se) 0.0010 0.0004 mg/L 02-0CT-05 CLL R330742 Tin (Sn) <0.05	Antimony (Sb)	<0.0004	0.0004	mg/L		02-OCT-05	CLL	R330742
Tin (Sn) <0.05 mg/L 0.02 CCL R330742 Titanium (Ti) 0.001 0.001 mg/L 02-OCT-05 CLL R330742 Thallium (Ti) 0.0010 0.001 mg/L 02-OCT-05 CLL R330742 Uranium (U) 0.0010 0.001 mg/L 02-OCT-05 CLL R330742 Vanadium (V) <0.001	Selenium (Se)	0.0010	0.0004	mg/L		02-OCT-05	CLL	R330742
Titanium (Ti) 0.001 0.001 mg/L 02-CCT-05 CLL R330742 Thallium (Ti) 0.0010 0.0001 mg/L 02-OCT-05 CLL R330742 Uranium (U) 0.0062 0.0011 mg/L 02-OCT-05 CLL R330742 Vanadium (V) <0.001	Tin (Sn)	<0.05	0.05	mg/L		02-OCT-05	CLL	R330742
Thallium (Ti) 0.0010 0.0001 mg/L 02-0CT-05 CLL R330742 Uranium (U) 0.0062 0.0001 mg/L 02-0CT-05 CLL R330742 Vanadium (V) 0.001 0.001 mg/L 02-0CT-05 CLL R330742 Zinc (Zn) 0.018 0.004 mg/L 02-0CT-05 CLL R330742 Total Major Metals	Titanium (Ti)	0.001	0.001	mg/L		02-OCT-05	CLL	R330742
Uranum (U) 0.0062 0.0001 mg/L 02-0C1-05 CLL R330742 Vanadium (V) <0.001	Thallium (TI)	0.0010	0.0001	mg/L		02-OCT-05	CLL	R330742
Vanadum (v) 40.001 00.01 mg/L 02-0C1-05 CLL R330742 Zinc (Zn) 0.018 0.004 mg/L 02-0CT-05 CLL R330742 Total Major Metals	Uranium (U)	0.0062	0.0001	mg/L		02-OCT-05	CLL	R330742
Zinc (Zi) 0.018 0.004 mg/L 02-0CT-05 CLL R330742 Total Major Metals 285 0.5 mg/L 02-0CT-05 CLL R330742 Potassium (K) 3.9 0.1 mg/L 02-0CT-05 CLL R330742 Magnesium (Mg) 123 0.1 mg/L 02-0CT-05 CLL R330742 Sodium (Na) 18 1 mg/L 02-0CT-05 CLL R330742 Iron (Fe) 1.12 0.005 mg/L 02-0CT-05 CLL R330742 Manganese (Mn) 0.003 0.001 mg/L 02-0CT-05 CLL R330742 Phosphorus, Total 0.003 0.001 mg/L 02-0CT-05 CLL R330742 Phosphorus, Total 0.003 0.001 mg/L 07-0CT-05 TL R332843 Total Organic Carbon 2 1 mg/L 07-0CT-05 ZW R330437 Nitrate-Nitrite-N <0.006	Vanadium (V)	<0.001	0.001	mg/L		02-OCT-05	CLL	R330742
Total Major Metals 285 0.5 mg/L 02-OCT-05 CLL R30742 Potassium (K) 3.9 0.1 mg/L 02-OCT-05 CLL R330742 Magnesium (Mg) 123 0.1 mg/L 02-OCT-05 CLL R330742 Sodium (Na) 18 1 mg/L 02-OCT-05 CLL R330742 Iron (Fe) 1.12 0.005 mg/L 02-OCT-05 CLL R330742 Manganese (Mn) 0.003 0.001 mg/L 02-OCT-05 CLL R330742 Phosphorus, Total 0.003 0.001 mg/L 02-OCT-05 CLL R330742 Phosphorus, Total 0.003 0.001 mg/L 02-OCT-05 CLL R330742 Phosphorus, Total 0.003 0.001 mg/L 02-OCT-05 CLL R330742 Chioria (Cl) 0.003 0.005 mg/L 06-OCT-05 KMY R332842 Chioride (Cl) 18 1 mg/L 30-SEP-05 WYA		0.018	0.004	mg/∟		02-001-05	CLL	R330742
Potassim (K) 3.9 0.1 mg/L 02-0CT-05 CLL R330742 Magnesium (Mg) 123 0.1 mg/L 02-0CT-05 CLL R330742 Sodium (Na) 18 1 mg/L 02-0CT-05 CLL R330742 Iron (Fe) 1.12 0.005 mg/L 02-0CT-05 CLL R330742 Magnese (Mn) 0.003 0.001 mg/L 02-0CT-05 CLL R330742 Phosphorus, Total 0.003 0.001 mg/L 02-0CT-05 CLL R330742 Phosphorus, Total 0.003 0.001 mg/L 02-0CT-05 CLL R330742 Potassitic Carbon 2 1 mg/L 02-0CT-05 CLL R332843 Total Organic Carbon 2 1 mg/L 06-0CT-05 KMY R330298 Nitrate+Nitrite-N <0.006	Calcium (Ca)	285	0.5	ma/l		02-OCT-05	CU	R330742
Magnesium (Mg) 123 0.1 mg/L 02-0CT-05 CLL R330742 Sodium (Na) 18 1 mg/L 02-0CT-05 CLL R330742 Iron (Fe) 1.12 0.005 mg/L 02-0CT-05 CLL R330742 Manganese (Mn) 0.003 0.001 mg/L 02-0CT-05 CLL R330742 Phosphorus, Total 0.003 0.001 mg/L 02-0CT-05 CLL R330742 Ammonia-N -0.005 0.001 mg/L 02-0CT-05 CLL R330742 Total Organic Carbon 2 1 mg/L 07-0CT-05 KMY R332843 Total Organic Carbon 2 1 mg/L 07-0CT-05 ZOW R330437 Nitrate+Nitrite-N <0.006	Potassium (K)	39	0.5	ma/l		02-OCT-05	CLL	R330742
Sodium (Na) Iron (Fe) 18 1 mg/L 02-OCT-05 CLL R330742 Manganese (Mn) 0.003 0.001 mg/L 02-OCT-05 CLL R330742 Phosphorus, Total 0.003 0.001 mg/L 07-OCT-05 CLL R330742 Ammonia-N <0.003	Magnesium (Mg)	123	0.1	ma/L		02-OCT-05		R330742
Iron (Fe) Manganese (Mn) 1.12 0.003 0.005 0.001 mg/L mg/L 02-OCT-05 02-OCT-05 CLL R330742 R330742 Phosphorus, Total Ammonia-N 0.003 0.001 mg/L 07-OCT-05 TL R332886 Ammonia-N <0.005	Sodium (Na)	18	1	mg/L		02-OCT-05	CLL	R330742
Manganese (Mn) 0.003 0.001 mg/L 02-OCT-05 CLL R330742 Phosphorus, Total 0.003 0.001 mg/L 07-OCT-05 TL R332886 Ammonia-N <0.005	Iron (Fe)	1.12	0.005	mg/L		02-OCT-05	CLL	R330742
Phosphorus, Total 0.003 0.001 mg/L 07-OCT-05 TL R332886 Ammonia-N <0.005	Manganese (Mn)	0.003	0.001	mg/L		02-OCT-05	CLL	R330742
Phosphorus, Total 0.003 0.001 mg/L 07-OCT-05 TL R332886 Ammonia-N <0.005								
Ammonia-N <0.005	Phosphorus, Total	0.003	0.001	mg/L		07-OCT-05	TL	R332886
Total Organic Carbon21mg/L07-OCT-05ZOWR332812Routine Water Analysis - Low Level181mg/L30-SEP-05WYAR330298Chloride (Cl)181mg/L30-SEP-05SHCR330437Nitrate+Nitrite-N<0.006	Ammonia-N	<0.005	0.005	mg/L		06-OCT-05	KMY	R332343
Routine Water Analysis - Low Level Image: Chloride (Cl) 18 1 mg/L 30-SEP-05 WYA R330298 Nitrate+Nitrite-N <0.006	Total Organic Carbon	2	1	mg/L		07-OCT-05	ZOW	R332812
Chloride (Cl) 18 1 mg/L 30-SEP-05 WYA R330298 Nitrate+Nitrite-N <0.006	Routine Water Analysis - Low Level							
Nitrate+Nitrite-N <0.006 mg/L 30-SEP-05 SHC R330437 Nitrate-N <0.006	Chloride (CI)	18	1	mg/L		30-SEP-05	WYA	R330298
Nitrate-N <0.006 mg/L 30-SEP-05 SHC R330437 Nitrite-N <0.002	Nitrate+Nitrite-N	<0.006	0.006	mg/L		30-SEP-05	SHC	R330437
Nitrite-N <0.002 mg/L 30-SEP-05 SHC R330437 Sulphate (SO4) 1000 0.05 mg/L 04-OCT-05 JWU R329576 pH PH 8.1 0.1 pH 30-SEP-05 PTT R330158	Nitrate-N	<0.006	0.006	mg/L		30-SEP-05	SHC	R330437
Sulphate (SO4) 1000 0.05 mg/L 04-OCT-05 JWU R329576 pH 8.1 0.1 pH 30-SEP-05 PTT R330158	Nitrite-N	<0.002	0.002	mg/L		30-SEP-05	SHC	R330437
pH, Conductivity and Total Alkalinity pH8.10.1pH30-SEP-05PTTR330158	Sulphate (SO4)	1000	0.05	mg/L		04-OCT-05	JWU	R329576
pH 8.1 0.1 pH 30-SEP-05 PTT R330158	pH, Conductivity and Total Alkalinity			-				
	pH	8.1	0.1	pН		30-SEP-05	PTT	R330158
Conductivity (EC) 1950 0.2 uS/cm 30-SEP-05 PTT R330158	Conductivity (EC)	1950	0.2	uS/cm		30-SEP-05	PTT	R330158

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Extracted	Analyzed	By	Batch
L3220/4-12 STATION 5 Sample Date: 22 SED 05								
Matrix: WATER Bouting Water Analysis - Low Lovel								
nH Conductivity and Total Alkalinity								
Bicarbonate (HCO3)	168		5	ma/l		30-SEP-05	PTT	R330158
Carbonate (CO3)	<5		5	ma/L		30-SEP-05	PTT	R330158
Hydroxide (OH)	<5		5	ma/L		30-SEP-05	PTT	R330158
Alkalinity, Total (as CaCO3)	138		5	mg/L		30-SEP-05	PTT	R330158
Ion Balance Calculation				•				
Ion Balance	99.0			%		04-OCT-05		
TDS (Calculated)	1500			mg/L		04-OCT-05		
Hardness (as CaCO3)	1150			mg/L		04-OCT-05		
ICP metals for routine water								
Calcium (Ca)	262		0.5	mg/L		30-SEP-05	AHY	R330152
Potassium (K)	3.9		0.1	mg/L		30-SEP-05	AHY	R330152
Magnesium (Mg)	120		0.1	mg/L		30-SEP-05	AHY	R330152
Sodium (Na)	18		1	mg/L		30-SEP-05	AHY	R330152
L322074-13 STATION 6 A								
Sample Date: 22-SEP-05								
Matrix: WATER								
Dissolved Metals - CCME								
Dissolved Trace Metals								
Silver (Ag)	<0.0001	RAMB	0.0001	mg/L		30-SEP-05	MX	R330388
Arennia (Ac)	<0.01		0.01	mg/L		30-SEP-05		R330388
Alsenic (As) Boron (B)	<0.0004		0.0004	mg/∟ mg/l		30-SEP-05		R330388
Borium (Ba)	<0.05		0.05	mg/L		20 SED 05		K330300
Berullium (Be)	-0.001		0.003	mg/L		30-SEP-05		R330388
Cadmium (Cd)	<0.001		0.001	mg/L		30-SEP-05	MX	R330388
Cobalt (Co)	<0.0001		0.0001	ma/l		30-SEP-05	MX	R330388
Chromium (Cr)	<0.005		0.005	ma/L		30-SEP-05	MX	R330388
Copper (Cu)	0.003		0.001	mg/L		30-SEP-05	MX	R330388
Mercury (Hg)	<0.0001		0.0001	mg/L		30-SEP-05	МХ	R330388
Lithium (Li)	<0.003		0.003	mg/L		30-SEP-05	МХ	R330388
Molybdenum (Mo)	<0.005		0.005	mg/L		30-SEP-05	MX	R330388
Nickel (Ni)	<0.002		0.002	mg/L		30-SEP-05	MX	R330388
Lead (Pb)	0.0003		0.0001	mg/L		30-SEP-05	MX	R330388
Antimony (Sb)	0.0008		0.0004	mg/L		30-SEP-05	MX	R330388
Selenium (Se)	<0.0004		0.0004	mg/L		30-SEP-05	MX	R330388
Tin (Sn)	<0.05		0.05	mg/L		30-SEP-05	MX	R330388
Titanium (Ti)	<0.001		0.001	mg/L		30-SEP-05	MX	R330388
I hallium (11)	<0.0001		0.0001	mg/L		30-SEP-05	MX	R330388
Uranium (U)	0.0007		0.0001	mg/L		30-SEP-05	MX	R330388
∇ anadium (∇)	<0.001		0.001	mg/L		30-SEP-05		R330388
Zinc (Zn)	0.065		0.002	mg/∟		30-SEP-05	IVIX	K330388
Iron (Fe)	0.012		0.005	ma/l		30-SEP-05	Нνσ	B330338
Manganese (Mn)	0.012		0.003	ma/l		30-SEP-05	HAS	R330338
Total Metals - CCME	0.002		0.001	g , L				
Total Trace Metals								
Silver (Ag)	<0.0004		0.0004	mg/L		30-SEP-05	MX	R330389
Aluminum (Al)	<0.01		0.01	mg/L		30-SEP-05	MX	R330389
Arsenic (As)	<0.0004		0.0004	mg/L		30-SEP-05	MX	R330389
Boron (B)	<0.05		0.05	mg/L		30-SEP-05	MX	R330389

Sample Details	s/Parameters	Result	Qualifier	D.L.	Units	Extracted	Analyzed	By	Batch
1 322074-13	STATION 6 Δ								
Sample Date	22-SEP-05								
Matrix:	WATER								
Total Me	tals - CCME								
Total Tr	ace Metals								
	Barium (Ba)	0.039		0.003	mg/L		30-SEP-05	MX	R330389
	Beryllium (Be)	<0.001		0.001	mg/L		30-SEP-05	MX	R330389
	Cadmium (Cd)	<0.0002		0.0002	mg/L		30-SEP-05	MX	R330389
	Cobalt (Co)	<0.002		0.002	mg/L		30-SEP-05	MX	R330389
	Chromium (Cr)	<0.005		0.005	mg/L		30-SEP-05	MX	R330389
	Copper (Cu)	0.002		0.001	mg/L		30-SEP-05	MX	R330389
	Mercury (Hg)	<0.0002		0.0002	mg/L		30-SEP-05	MX	R330389
	Lithium (Li)	<0.01		0.01	mg/L		30-SEP-05	MX	R330389
	Molybdenum (Mo)	<0.005		0.005	mg/L		30-SEP-05	MX	R330389
	Nickel (Ni)	<0.002		0.002	mg/L		30-SEP-05	MX	R330389
	Lead (Pb)	0.0002		0.0001	mg/L		30-SEP-05	MX	R330389
	Antimony (SD)	<0.0004		0.0004	mg/∟		30-SEP-05	IVIX	R330389
	Selenium (Se)	<0.0004		0.0004	mg/L		30-SEP-05	MX	R330389
	Titonium (Ti)	<0.05		0.05	mg/∟		30-3EP-03		R330309
	Thallium (TI)	<0.001		0.001	mg/L		30-3EF-03		R330309
	Liranium (LI)	0.0001		0.0001	mg/L		30-SEP-05		D320309
	Vanadium (V)	~0.000		0.0001	mg/L		30-SEP-05	MX	R330389
	Zinc (Zn)	0.065		0.001	mg/L		30-SEP-05	MX	R330389
Total M	aior Metals	0.000		0.004	ing/∟			W/X	11000000
	Calcium (Ca)	60.3		0.5	mg/L		30-SEP-05	HAS	R330341
	Potassium (K)	1.1		0.1	mg/L		30-SEP-05	HAS	R330341
	Magnesium (Mg)	12.2		0.1	mg/L		30-SEP-05	HAS	R330341
	Sodium (Na)	<1		1	mg/L		30-SEP-05	HAS	R330341
	Iron (Fe)	0.014		0.005	mg/L		30-SEP-05	HAS	R330341
	Manganese (Mn)	0.002		0.001	mg/L		30-SEP-05	HAS	R330341
		0.000		0.004				-	Doooooo
	Ammonia-N	0.006		0.001	mg/L				R332886
	Total Organic Carbon	15		0.005	mg/L				D222040
Poutine	Nater Analysis - Low Level	15		1	mg/∟		07-001-05	2000	R332012
Routine	Chloride (CI)	2		1	ma/l		30-SED-05		D320208
	Nitrato (Nitrito N	0 1 2 0		0.006	mg/L		20 SED 05	SUC	R330290
	Nitroto N	0.130		0.000	mg/L		20 SED 05	5110	D220437
	Nitrito N	0.130		0.000	mg/∟				R330437
	Nittine-N	<0.002		0.002	mg/∟		30-3EP-03	SHC	R330437
	Suprate (SO4)	70.7		0.05	mg/∟		04-001-05	JVV U	R329576
рп, сог		83		0.1	nH		30-SEP-05	PTT	R330158
	Conductivity (EC)	380		0.1	uS/cm		30-SEP-05	PTT	R330158
	Bicarbonate (HCO3)	152		5	ma/l		30-SEP-05	PTT	R330158
	Carbonate (CO3)	<5		5	ma/L		30-SEP-05	PTT	R330158
	Hydroxide (OH)	<5		5	mg/L		30-SEP-05	PTT	R330158
	Alkalinity, Total (as CaCO3)	125		5	mg/L		30-SEP-05	PTT	R330158
Ion Bala	ance Calculation				-				
	Ion Balance	97.8			%		04-OCT-05		
	TDS (Calculated)	220			mg/L		04-OCT-05		
	Hardness (as CaCO3)	194			mg/L		04-OCT-05		
ICP met	als for routine water								
	Calcium (Ca)	57.3		0.5	mg/L		30-SEP-05	AHY	R330152
	Potassium (K)	1.0		0.1	mg/L		30-SEP-05	AHY	R330152

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Extracted	Analyzed	By	Batch
L322074-13 STATION 6 A								
Sample Date: 22-SEP-05								
Matrix: WATER								
Routine water Analysis - Low Level								
Magnesium (Mg)	12 3		0.1	ma/l		30-SEP-05	ΔНУ	R330152
Sodium (Na)	1		1	mg/L		30-SEP-05	AHY	R330152
1 322074-14 STATION 6 B	· · · · · · · · · · · · · · · · · · ·							
Sample Date: 22-SEP-05								
Matrix: WATER								
Dissolved Metals - CCME								
Dissolved Trace Metals								
Silver (Ag)	<0.0001	RAMB	0.0001	mg/L		30-SEP-05	MX	R330388
Aluminum (Al)	0.07		0.01	mg/L		30-SEP-05	MX	R330388
Arsenic (As)	<0.0004		0.0004	mg/L		30-SEP-05	MX	R330388
Boron (B)	<0.05		0.05	mg/L		30-SEP-05	MX	R330388
Barium (Ba)	0.040		0.003	mg/L		30-SEP-05	MX	R330388
Beryllium (Be)	< 0.001		0.001	mg/L		30-SEP-05	MX	R330388
	<0.0001		0.0001	mg/L		30-SEP-05	MX	R330388
Cobait (Co)	<0.002		0.002	mg/∟		30-SEP-05		R330388
	<0.005		0.005	mg/L		30-SEP-05		R330388
Mercury (Ha)	~0.001		0.001	mg/L		30-SEP-05	MX	R330388
Lithium (Li)	<0.0001		0.0001	ma/l		30-SEP-05	MX	R330388
Molvbdenum (Mo)	<0.005		0.005	ma/L		30-SEP-05	MX	R330388
Nickel (Ni)	<0.002		0.002	mg/L		30-SEP-05	MX	R330388
Lead (Pb)	0.0013		0.0001	mg/L		30-SEP-05	MX	R330388
Antimony (Sb)	0.0008		0.0004	mg/L		30-SEP-05	MX	R330388
Selenium (Se)	<0.0004		0.0004	mg/L		30-SEP-05	MX	R330388
Tin (Sn)	<0.05		0.05	mg/L		30-SEP-05	MX	R330388
Titanium (Ti)	0.003		0.001	mg/L		30-SEP-05	MX	R330388
Thallium (TI)	<0.0001		0.0001	mg/L		30-SEP-05	MX	R330388
Uranium (U)	0.0007		0.0001	mg/L		30-SEP-05	MX	R330388
Vanadium(V)	<0.001		0.001	mg/∟		30-SEP-05		R330388
Dissolved Major Motolo	0.069		0.002	mg/∟		30-3EF-00	IVIA	K330300
Calcium (Ca)	61.7		0.5	ma/L		30-SEP-05	HAS	R330338
Potassium (K)	1.1		0.1	mg/L		30-SEP-05	HAS	R330338
Magnesium (Mg)	12.9		0.01	mg/L		30-SEP-05	HAS	R330338
Sodium (Na)	1.0		0.5	mg/L		30-SEP-05	HAS	R330338
Iron (Fe)	0.079		0.005	mg/L		30-SEP-05	HAS	R330338
Manganese (Mn)	0.005		0.001	mg/L		30-SEP-05	HAS	R330338
Total Metals - CCME								
Total Trace Metals	0.0004		0.0004	···· •//				Decose
Aluminum (Al)	<0.0004		0.0004	mg/L		30-3EP-03		R330389
Arcenic (As)	-0.004		0.01	mg/L		30-SEP-05		R330380
Boron (B)	<0.05		0.05	ma/l		30-SEP-05	MX	R330389
Barium (Ba)	0.043		0.003	ma/L		30-SEP-05	MX	R330389
Beryllium (Be)	<0.001		0.001	mg/L		30-SEP-05	MX	R330389
Cadmium (Cd)	<0.0002		0.0002	mg/L		30-SEP-05	MX	R330389
Cobalt (Co)	<0.002		0.002	mg/L		30-SEP-05	MX	R330389
Chromium (Cr)	<0.005		0.005	mg/L		30-SEP-05	MX	R330389
Copper (Cu)	0.002		0.001	mg/L		30-SEP-05	MX	R330389
Mercury (Hg)	<0.0002		0.0002	mg/L		30-SEP-05	MX	R330389
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Sample Details/Parameters	Result	Qualifier	D.L.	Units	Extracted	Analyzed	By	Batch
Sample Date: 22-SEP-05								
Matrix: WATER								
Total Metals - CCME								
Total Trace Metals								
Lithium (Li)	<0.01		0.01	mg/L		30-SEP-05	МХ	R330389
Molybdenum (Mo)	<0.005		0.005	mg/L		30-SEP-05	MX	R330389
Nickel (Ni)	<0.002		0.002	mg/L		30-SEP-05	MX	R330389
Lead (Pb)	0.0012		0.0001	mg/L		30-SEP-05	MX	R330389
Antimony (Sb)	<0.0004		0.0004	mg/L		30-SEP-05	MX	R330389
Selenium (Se)	<0.0004		0.0004	mg/L		30-SEP-05	MX	R330389
lin (Sn)	< 0.05		0.05	mg/L		30-SEP-05	MX	R330389
	0.006		0.001	mg/L		30-SEP-05	MX	R330389
I nallium (11)	<0.0001		0.0001	mg/L		30-SEP-05	MX	R330389
Vanadium (V)	0.0007		0.0001	mg/L		30-3EP-03		R330309
\overline{Z} inc $(\overline{Z}$ n)	<0.001		0.001	mg/L		30-SEP-05		R330380
Total Major Metals	0.071		0.004	ing/L		50 0LI -00		11000009
Calcium (Ca)	59.6		0.5	ma/L		30-SEP-05	HAS	R330341
Potassium (K)	1.1		0.1	mg/L		30-SEP-05	HAS	R330341
Magnesium (Mg)	12.5		0.1	mg/L		30-SEP-05	HAS	R330341
Sodium (Na)	1		1	mg/L		30-SEP-05	HAS	R330341
Iron (Fe)	0.138		0.005	mg/L		30-SEP-05	HAS	R330341
Manganese (Mn)	0.004		0.001	mg/L		30-SEP-05	HAS	R330341
L322074-15 STATION 10								
Sample Date: 22-SEP-05								
Matrix: WATER								
Dissolved Metals - CCME								
Dissolved Trace Metals								
Silver (Ag)	<0.0001	RAMB	0.0001	mg/L		30-SEP-05	MX	R330388
Aluminum (Al)	0.02		0.01	mg/L		30-SEP-05	MX	R330388
Arsenic (As)	<0.0004		0.0004	mg/L		30-SEP-05	MX	R330388
Boron (B) Borium (Bo)	<0.05		0.05	mg/∟		30-SEP-05		R330388
Banulium (Ba)	0.043		0.003	mg/L		30-SEP-05		R330300
Cadmium (Cd)	<0.001		0.001	mg/L		30-SEP-05		P330388
Cobalt (Co)	<0.0001		0.0001	ma/l		30-SEP-05	MX	R330388
Chromium (Cr)	<0.002		0.005	ma/L		30-SEP-05	MX	R330388
Copper (Cu)	0.002		0.001	mg/L		30-SEP-05	MX	R330388
Mercury (Hg)	<0.0001		0.0001	mg/L		30-SEP-05	MX	R330388
Lithium (Li)	0.005		0.003	mg/L		30-SEP-05	MX	R330388
Molybdenum (Mo)	<0.005		0.005	mg/L		30-SEP-05	MX	R330388
Nickel (Ni)	<0.002		0.002	mg/L		30-SEP-05	MX	R330388
Lead (Pb)	<0.0001		0.0001	mg/L		30-SEP-05	MX	R330388
Antimony (Sb)	<0.0004		0.0004	mg/L		30-SEP-05	MX	R330388
Selenium (Se)	<0.0004		0.0004	mg/L		30-SEP-05	MX	R330388
Tin (Sn)	<0.05		0.05	mg/L		30-SEP-05	MX	R330388
Litanium (Li)	<0.001		0.001	mg/L		30-SEP-05	MX	K330388
i nailium (11)	<0.0001		0.0001	mg/L		30-SEP-05	MX	R330388
Uranium (U)	0.0004		0.0001	mg/L		30-3EP-05		K330388
v a a (v) Zinc (Zn)			0.001	mg/L		30-3EP-03		R330300
	0.004		0.002	ing/L		JU-JEF-03	IVIA	1200000
Iron (Fe)	0.037		0.005	ma/L		30-SEP-05	HAS	R330338
				3				

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Extracted	Analyzed	By	Batch
L322074-15 STATION 10 Sample Date: 22 SED 05								
Dissolved Metals - CCME								
Dissolved Major Metals								
Manganese (Mn)	0.002		0.001	mg/L		30-SEP-05	HAS	R330338
Total Metals - CCME				•				
Total Trace Metals								
Silver (Ag)	<0.0004		0.0004	mg/L		30-SEP-05	MX	R330389
Aluminum (Al)	1.90		0.01	mg/L		30-SEP-05	MX	R330389
Arsenic (As)	0.0009		0.0004	mg/L		30-SEP-05	MX	R330389
Boron (B)	< 0.05		0.05	mg/L		30-SEP-05	MX	R330389
Barium (Ba)	0.065		0.003	mg/L		30-SEP-05	MX	R330389
Codmium (Cd)	<0.001		0.001	mg/L		30-SEP-05		R330389
Cobalt (Co)	<0.0002		0.0002	mg/L		30-3EF-03		R330309
Chromium (Cr)	<0.002		0.002	mg/L		30-SEP-05	MX	R330389
Copper (Cu)	0.003		0.000	ma/l		30-SEP-05	MX	R330389
Mercury (Ha)	<0.0002		0.0002	ma/L		30-SEP-05	MX	R330389
Lithium (Li)	<0.01		0.01	mg/L		30-SEP-05	MX	R330389
Molybdenum (Mo)	<0.005		0.005	mg/L		30-SEP-05	MX	R330389
Nickel (Ni)	0.003		0.002	mg/L		30-SEP-05	MX	R330389
Lead (Pb)	0.0009		0.0001	mg/L		30-SEP-05	MX	R330389
Antimony (Sb)	0.0005		0.0004	mg/L		30-SEP-05	MX	R330389
Selenium (Se)	<0.0004		0.0004	mg/L		30-SEP-05	MX	R330389
Tin (Sn)	<0.05		0.05	mg/L		30-SEP-05	MX	R330389
Titanium (Ti)	0.049		0.001	mg/L		30-SEP-05	MX	R330389
Thallium (TI)	<0.0001		0.0001	mg/L		30-SEP-05	MX	R330389
Uranium (U)	0.0005		0.0001	mg/L		30-SEP-05	MX	R330389
Vanadium (V)	0.006		0.001	mg/L		30-SEP-05	MX	R330389
	0.006		0.004	mg/L		30-SEP-05	MX	R330389
I otal Major Metals	31 /		0.5	ma/l		30-SEP-05	нлс	P3303/1
Potassium (K)	17		0.5	mg/L		30-SEP-05	HAS	R330341
Magnesium (Mg)	8.1		0.1	ma/L		30-SEP-05	HAS	R330341
Sodium (Na)	12		1	mg/L		30-SEP-05	HAS	R330341
Iron (Fe)	1.44		0.005	mg/L		30-SEP-05	HAS	R330341
Manganese (Mn)	0.028		0.001	mg/L		30-SEP-05	HAS	R330341
Phosphorus, Total	0.041		0.001	mg/L		07-OCT-05	TL	R332886
Ammonia-N	0.008		0.005	mg/L		06-OCT-05	KMY	R332343
Total Organic Carbon	9		1	mg/L		07-OCT-05	ZOW	R332812
Routine Water Analysis - Low Level								
Chloride (CI)	14		1	mg/L		30-SEP-05	WYA	R330298
Nitrate+Nitrite-N	<0.006		0.006	mg/L		30-SEP-05	SHC	R330437
Nitrate-N	<0.006		0.006	mg/L		30-SEP-05	SHC	R330437
Nitrite-N	<0.002		0.002	mg/L		30-SEP-05	SHC	R330437
Sulphate (SO4)	29.6		0.05	mg/L		04-OCT-05	JMU	R329576
pH, Conductivity and Total Alkalinity								
pH	8.1		0.1	рН		30-SEP-05	PTT	R330158
Conductivity (EC)	276		0.2	uS/cm		30-SEP-05	PTT	R330158
Bicarbonate (HCO3)	103		5	mg/L		30-SEP-05	PTT	R330158
Carbonate (CO3)	<5		5	mg/L		30-SEP-05		R330158
	C> ۸ ۵		5 E	mg/L		30-3EP-05		R330158
	04		5	ing/∟		JU-JEF-00	r 1 1	001000

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Extracted	Analyzed	By	Batch
L322074-15 STATION TO Sample Date: 22 SEB 05								
Matrix: WATER Routine Water Analysis - Low Level								
Ion Balance Calculation								
Ion Balance	100			%		04-OCT-05		
TDS (Calculated)	145			mg/L		04-OCT-05		
Hardness (as CaCO3)	110			mg/L		04-OCT-05		
ICP metals for routine water								
Calcium (Ca)	31.0		0.5	mg/L		30-SEP-05	AHY	R330152
Potassium (K)	1.1		0.1	mg/L		30-SEP-05	AHY	R330152
Magnesium (Mg)	8.0		0.1	mg/L		30-SEP-05	AHY	R330152
Sodium (Na)	11		1	mg/L		30-SEP-05	AHY	R330152
L322074-16 FILTER								
Sample Date: 22-SEP-05								
Matrix: FILTER								
Dissolved Metals - CCME								
Dissolved Trace Metals Silver (Ag)	~0.0001	RAMB	0.0001	ma/l		30-SEP-05	MX	P330388
Aluminum (Al)	<0.001		0.0001	mg/L		30-SEP-05	MX	R330388
Arsenic (As)	<0.0004		0.0004	ma/L		30-SEP-05	MX	R330388
Boron (B)	<0.05		0.05	mg/L		30-SEP-05	MX	R330388
Barium (Ba)	<0.003		0.003	mg/L		30-SEP-05	MX	R330388
Beryllium (Be)	<0.001		0.001	mg/L		30-SEP-05	MX	R330388
Cadmium (Cd)	<0.0001		0.0001	mg/L		30-SEP-05	MX	R330388
Cobalt (Co)	<0.002		0.002	mg/L		30-SEP-05	MX	R330388
Chromium (Cr)	<0.005		0.005	mg/L		30-SEP-05	MX	R330388
Copper (Cu)	<0.001		0.001	mg/L		30-SEP-05	MX	R330388
Mercury (Hg)	<0.0001		0.0001	mg/L		30-SEP-05	MX	R330388
Lithium (Li)	<0.003		0.003	mg/L		30-SEP-05	MX	R330388
Molybdenum (Mo)	<0.005		0.005	mg/L		30-SEP-05	MX	R330388
NICKEI (NI)	<0.002		0.002	mg/L		30-SEP-05	MX	R330388
Leau (PD)	0.0002		0.0001	mg/L		30-SEP-05		R330388
Selenium (Se)	<0.0004		0.0004	mg/L		30-SEP-05	MX	R330388
Tin (Sn)	<0.004		0.0004	ma/l		30-SEP-05	MX	R330388
Titanium (Ti)	<0.001		0.001	ma/L		30-SEP-05	MX	R330388
Thallium (TI)	<0.0001		0.0001	mg/L		30-SEP-05	MX	R330388
Uranium (U)	<0.0001		0.0001	mg/L		30-SEP-05	MX	R330388
Vanadium (V)	0.003		0.001	mg/L		30-SEP-05	MX	R330388
Zinc (Zn)	0.004		0.002	mg/L		30-SEP-05	MX	R330388
Dissolved Major Metals								
Calcium (Ca)	<0.5		0.5	mg/L		30-SEP-05	HAS	R330338
Potassium (K)	<0.1		0.1	mg/L		30-SEP-05	HAS	R330338
	<0.01		0.01	mg/L		30-SEP-05	HAS	R330338
Sodium (Na)	<0.5		0.5	mg/∟		30-SEP-05	HAS	R330338
Manganese (Mn)	<0.005		0.005	mg/L		30-SEP-05	HAS	R330338
	<0.001		0.001	iiig/L		50 OLI 05	TIA5	1330330
Refer to Referenced Information for Quali	fiers (if any) and Metho	dology.						

Reference Information

Qualifiers for Sample Submission Listed:

Qualifier	Description
EHT	Exceeds Recommended Holding Time Prior To Analysis - SOME ROUTINE PARAMETERS PAST HOLD TIME

Sample Parameter Qualifier key listed:

Qualifier	Description
BL:INT	Balance Reviewed: Interference Or Non-Measured Component
RAMB	Result Adjusted For Method Blank

Methods Listed (if applicable):

ETL Test Code	Matrix	Test Description	Preparation Method Reference(Based On)	Analytical Method Reference(Based On)			
C-TOT-ORG-ED	Water	Total Organic Carbon		APHA 5310 B-Instrumental			
CL-ED	Water	Chloride (Cl)		APHA 4500 CI E-Colorimetry			
ETL-ROUTINE-LOW-ED	Water	ICP metals for routine water	r	APHA 3120 B-ICP/OES			
IONBALANCE-ED	Water	Ion Balance Calculation		APHA 1030E			
MET1-DIS-CCME-ED	Water	Dissolved Trace Metals		EPA 6020			
MET1-TOT-CCME-ED	Water	Total Trace Metals	EPA3015	EPA 6020			
MET2-DIS-ED	Water	Dissolved Major Metals		EPA 200.7			
MET2-TOT-LOW-ED	Water	Total Major Metals	EPA3015	APHA 3120 B-ICP-OES			
N2N3-LOW-ED	Water	Nitrate+Nitrite-N		APHA 4500 NO3E-Colorimetry			
NH4-LOW-ED	Water	Ammonia-N		APHA 4500 NH3F-Colorimetry			
NO2-LOW-ED	Water	Nitrite-N		APHA 4500 NO2B-Colorimetry			
NO3-LOW-ED	Water	Nitrate-N		APHA 4500 NO3H-Colorimetry			
P-TOTAL-LOW-ED	Water	Phosphorus, Total		APHA 4500 P B,E-Auto-Colorimetry			
PH/EC/ALK-ED	Water	pH, Conductivity and Total Alkalinity		APHA 4500-H, 2510, 2320			
SO4-LOW-ED	Water	Sulfate (SO4)		APHA 4110 B-Ion Chromatography			
** Laboratory Methods employed follow in-house procedures, which are							

generally based on nationally or internationally accepted methodologies.

Chain of Custody numbers: 211481 211482 The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below: Indicate the laboratory that performed analytical analysis for that test. Refer to the list below: Indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
ED	Enviro-Test Laboratories - Edmonton, Alberta, Canada		

Reference Information

GLOSSARY OF REPORT TERMS

Surr - A surrogate is an organic compound that is similar to the target analyte(s) in chemical composition and behavior but not normally detected in environmental samples. Prior to sample processing, samples are fortified with one or more surrogate compounds. The reported surrogate recovery value provides a measure of method efficiency. The Laboratory warning units are determined under column heading D.L.

mg/kg (units) - unit of concentration based on mass, parts per million

mg/L (units) - unit of concentration based on volume, parts per million

< - Less than

D.L. - Detection Limit

N/A - Result not available. Refer to qualifier code and definition for explanation

Test results reported relate only to the samples as received by the laboratory. UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION. UNLESS OTHERWISE STATED, SAMPLES ARE NOT CORRECTED FOR CLIENT FIELD BLANKS. Although test results are generated under strict QA/QC protocols, any unsigned test reports, faxes, or emails are considered preliminary.

Enviro-Test Laboratories has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by checks and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus cannot be guaranteed, Enviro-Test Laboratories assumes no liability for the use or interpretation of the results.



PRELIMINARY RESULTS							
EBA ENG CONSULTANT ATTN: STEVE MOORE 201-4916 49 STREET YELLOWKNIFE NT X1A	TS LTD A 2P7			DATE: 03-OCT-05	07:33 PM		
Lab Work Order #: L Project P.O. #: Job Reference: 1 Comments:	.322418 740149	Sampled By: DOUG JOHNSON Director of Operations, E	SM	1	Date Received:	26-SEP-05	
		SANDRA WATSON Account Manager					

THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN AUTHORITY OF THE LABORATORY. ANY REMAINING SAMPLES WILL BE DISPOSED OF AFTER 30 DAYS FOLLOWING ANALYSIS. PLEASE CONTACT THE LAB IF YOU REQUIRE ADDITIONAL SAMPLE STORAGE TIME.

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Extracted	Analyzed	By	Batch
L322418-1 I RIP BLANK								
Sample Date: 23-SEP-05								
Matrix: WATER								
Dissolved Metals - CCME								
Dissolved Trace Metals	-0.0001	DAMB	0.0001	ma/l		27 SED 05	<u></u>	D220204
	<0.0001	RAIVID	0.0001	mg/L		27-3LF-03		R329301
	<0.01		0.01	mg/L		27-SEP-05		R329301
Boron (B)	<0.004		0.0004	mg/L		27-SEP-05	CLL	R329301
Barium (Ba)	<0.03		0.03	mg/L		27-SEP-05	CLL	D220201
Benyllium (Be)	<0.003		0.003	mg/L		27-SEP-05		R329301
Cadmium (Cd)	<0.001		0.001	mg/L		27-SEP-05	CLL	R329381
Cobalt (Co)	<0.0001		0.0001	ma/l		27-SEP-05	CLL	R329381
Chromium (Cr)	<0.002		0.002	ma/l		27-SEP-05	CLL	R329381
Copper (Cu)	<0.000		0.001	ma/l		27-SEP-05	CLL	R329381
Mercury (Ha)	<0.0001		0.0001	ma/L		27-SEP-05	CLL	R329381
Lithium (Li)	<0.003		0.003	mg/L		27-SEP-05	CLL	R329381
Molybdenum (Mo)	<0.005		0.005	mg/L		27-SEP-05	CLL	R329381
Nickel (Ni)	<0.002		0.002	mg/L		27-SEP-05	CLL	R329381
Lead (Pb)	<0.0001		0.0001	mg/L		27-SEP-05	CLL	R329381
Antimony (Sb)	<0.0004		0.0004	mg/L		27-SEP-05	CLL	R329381
Selenium (Se)	<0.0004		0.0004	mg/L		27-SEP-05	CLL	R329381
Tin (Sn)	<0.05		0.05	mg/L		27-SEP-05	CLL	R329381
Titanium (Ti)	<0.001		0.001	mg/L		27-SEP-05	CLL	R329381
Thallium (TI)	<0.0001		0.0001	mg/L		27-SEP-05	CLL	R329381
Uranium (U)	<0.0001		0.0001	mg/L		27-SEP-05	CLL	R329381
Vanadium (V)	<0.001		0.001	mg/L		27-SEP-05	CLL	R329381
Zinc (Zn)	<0.002		0.002	mg/L		27-SEP-05	CLL	R329381
Dissolved Major Metals								
Calcium (Ca)	<0.5		0.5	mg/L		28-SEP-05	HAS	R329418
Potassium (K)	<0.1		0.1	mg/L		28-SEP-05	HAS	R329418
Magnesium (Mg)	<0.01		0.01	mg/L		28-SEP-05	HAS	R329418
Sodium (Na)	<0.5		0.5	mg/L		28-SEP-05	HAS	R329418
Iron (Fe)	<0.005		0.005	mg/L		28-SEP-05	HAS	R329418
	<0.001		0.001	mg/∟		28-SEP-05	HAS	R329418
Total Traco Motals								
Silver (Ag)	<0.0004		0 0004	ma/l		27-SEP-05	CU	R329156
Aluminum (Al)	<0.01		0.01	ma/l		27-SEP-05	CLL	R329156
Arsenic (As)	<0.0004		0.0004	ma/L		27-SEP-05	CLI	R329156
Boron (B)	<0.05		0.05	ma/L		27-SEP-05	CLL	R329156
Barium (Ba)	< 0.003		0.003	mg/L		27-SEP-05	CLL	R329156
Beryllium (Be)	<0.001		0.001	mg/L		27-SEP-05	CLL	R329156
Cadmium (Cd)	<0.0002		0.0002	mg/L		27-SEP-05	CLL	R329156
Cobalt (Co)	<0.002		0.002	mg/L		27-SEP-05	CLL	R329156
Chromium (Cr)	< 0.005		0.005	mg/L		27-SEP-05	CLL	R329156
Copper (Cu)	<0.001		0.001	mg/L		27-SEP-05	CLL	R329156
Mercury (Hg)	<0.0002		0.0002	mg/L		27-SEP-05	CLL	R329156
Lithium (Li)	<0.01		0.01	mg/L		27-SEP-05	CLL	R329156
Molybdenum (Mo)	<0.005		0.005	mg/L		27-SEP-05	CLL	R329156
Nickel (Ni)	<0.002		0.002	mg/L		27-SEP-05	CLL	R329156
Lead (Pb)	0.0001		0.0001	mg/L		27-SEP-05	CLL	R329156
Antimony (Sb)	<0.0004		0.0004	mg/L		27-SEP-05	CLL	R329156
Selenium (Se)	<0.0004		0.0004	mg/L		27-SEP-05	CLL	R329156
Tin (Sn)	<0.05		0.05	mg/L		27-SEP-05	CLL	R329156

L322419-1 TRIP BLANK Sample Dai: 23-SEP-05 Sample Dai: 23-SEP-05 Sample Dai: 23-SEP-05 CLL R221166 Matrix: WATER Timilum (TI) -0.001 0.001 mgf. 27-SEP-05 CLL R221166 Timilum (TI) -0.0001 0.001 mgf. 27-SEP-05 CLL R221166 Uranium (U) -0.0001 0.004 mgf. 27-SEP-05 CLL R221166 Junaium (U) -0.0001 0.004 mgf. 27-SEP-05 CLL R221166 Junaium (U) -0.001 0.004 mgf. 27-SEP-05 CLL R221168 Galcum (Ga) -0.5 0.5 mgf. 28-SEP-06 HAS R232119 Magnesium (Mg) -0.1 0.1 mgf. 28-SEP-06 HAS R232119 Magnesium (Mg) -0.1 1 mgf. 28-SEP-06 HAS R232119 Magnesium (Mg) -0.1 1 mgf. 28-SEP-06 SHC R32047 Ammonia-N -0.005 </th <th>Sample Details/Parameters</th> <th>Result</th> <th>Qualifier</th> <th>D.L.</th> <th>Units</th> <th>Extracted</th> <th>Analyzed</th> <th>By</th> <th>Batch</th>	Sample Details/Parameters	Result	Qualifier	D.L.	Units	Extracted	Analyzed	By	Batch
Liz2119-1 TAP BLANK Sample Disc. 25:8FP:06 Matrix: WATER Total Meals - CCME Total Trace Meals 									
Satupie Date: Carbon Control Contro Control Contro Control Contro	L322418-1 I RIP BLANK								
Main:: WAILEN Main: <	Sample Date: 23-SEP-05								
Total Trace Metals	Matrix: WATER								
Local Transmit (-0.001) 0.001 mgL 27-5EP-85 CLL R232156 Uranum (U) -0.0001 0.0001 mgL 27-5EP-85 CLL R323156 Variadum (V) -0.0001 0.0001 mgL 27-5EP-85 CLL R323156 Variadum (V) -0.001 0.004 mgL 27-5EP-85 CLL R323156 Total Major Metals - - - - 28-5EP-85 HAS R329159 Magnesim (Mg) -0.1 0.1 mgL 28-5EP-86 HAS R329119 Sockum (Na) -1 1 mgL 28-5EP-86 HAS R329119 Nangenesin (Mg) -0.001 0.001 mgL 28-5EP-86 HAS R329119 Ammonia-N -0.005 0.005 mgL 28-5EP-86 HAS R329119 Choida (C1) -1 mgL 28-5EP-86 HAS R329119 Ammonia-N -0.005 0.005 mgL 28-5EP-85 HC R	Total Trace Metals								
Thalium (TD) <0.0001 0.0001 mgL 27-SEP-46 CLL R329156 Vanadum (V) <0.001	Titanium (Ti)	< 0.001		0.001	ma/L		27-SEP-05	CLI	R329156
Uranium (i) -0.0001 0.0001 mgL 27.5EP-05 CLL R.229156 Zine (Zn) -0.004 0.004 mgL 27.5EP-05 CLL R.229156 Total Major Metals - - - - - R.239156 Calcium (Ca) -0.5 0.5 0.5 mgL 28-5EP-05 LR R.229156 Calcium (Ca) -0.1 0.1 0.1 mgL 28-5EP-05 HAS R.229419 Sodum (Na) -1 1 mgL 28-5EP-05 HAS R.229419 Iron (Fe) -0.005 0.001 mgL 28-5EP-05 HAS R.229419 Manganese (Mn) -0.005 0.001 mgL 28-5EP-05 HAS R.229419 Ammonia-N -0.005 0.001 mgL 28-5EP-05 HAS R.229419 Ammonia-N -0.005 0.001 mgL 28-5EP-05 HAS R.229419 Cincium (Vartimation N -0.005 0.001 mgL 28-5EP	Thallium (TI)	<0.0001		0.0001	mg/L		27-SEP-05	CLL	R329156
Vanadium (V) -0.001 mg/L 27.5EP.05 CLL R329166 Total Major Matais -0.004 0.004 mg/L 28.5EP.05 CLL R329166 Protassium (K) -0.1 0.1 mg/L 28.5EP.05 HAS R329119 Magnesium (Mg) -0.1 0.1 mg/L 28.5EP.05 HAS R329419 Sodium (Na) -t1 1 mg/L 28.5EP.05 HAS R329419 Magnesize (Mn) -0.001 0.001 mg/L 28.5EP.05 HAS R329419 Mangenese (Mn) -0.001 0.001 mg/L 28.5EP.05 HAS R329419 Ammonia-N -0.001 0.001 mg/L 28.5EP.05 HAS R329419 Choirde (C) -1 1 mg/L 28.5EP.05 HAS R329419 Mintata-Nitrite-N -0.005 0.005 mg/L 28.5EP.05 SHC R329419 Nitrata-Nitrite-N -0.006 0.005 mg/L 27.5EP.05 WA	Uranium (U)	<0.0001		0.0001	mg/L		27-SEP-05	CLL	R329156
Zhe (Zn) -c0.004 0.004 mg/L 27-SEP-05 CLL R329159 Total Major Matais Calcium (Ca) -0.5 0.5 mg/L 28-SEP.05 HAS R329419 Potassium (K) -0.1 0.1 mg/L 28-SEP.05 HAS R329419 Sodium (Na) -1 1 mg/L 28-SEP.05 HAS R329419 Sodium (Na) -1 1 mg/L 28-SEP.05 HAS R329419 Manganese (Mn) -0.001 0.001 mg/L 28-SEP.05 HAS R329419 Phosphorus, Total -0.001 0.001 mg/L 28-SEP.05 HAS R329419 Routine Water Analysis - Low Level - 1 mg/L 28-SEP.05 WVA R32816 Nitrate-Nitrite-N -0.006 0.006 mg/L 28-SEP.05 WVA R32816 Nitrate-N -0.006 0.006 mg/L 28-SEP.05 WVA R32816 Nitrate-N -0.002 0.002 mg/L 28-SEP.	Vanadium (V)	<0.001		0.001	mg/L		27-SEP-05	CLL	R329156
Total Major Metals	Zinc (Zn)	<0.004		0.004	mg/L		27-SEP-05	CLL	R329156
Calcium (Ca) -0.5 0.5 mg/L 28-5EP-05 HAS R323419 Magnesium (Mg) -0.1 0.1 mg/L 28-5EP-05 HAS R323419 Sodium (Na) -t1 1 mg/L 28-5EP-05 HAS R328419 Magnesiae (Mn) -0.001 0.001 mg/L 28-5EP-05 HAS R328419 Phosphorus, Total -0.001 0.001 mg/L 28-5EP-05 HAS R329419 Ammonia-N -0.001 0.001 mg/L 28-5EP-05 SHC R339419 Ammonia-N -0.005 0.005 mg/L 28-5EP-05 SHC R329419 Choride (C) -t1 1 mg/L 29-5EP-05 SHC R328419 Mirata-N -0.006 0.006 mg/L 28-5EP-05 SHC R328419 Nitrite-N -0.006 0.006 mg/L 26-5EP-05 SHC R328419 Nitrite-N -0.006 0.006 mg/L 26-5EP-05 SHC <	Total Major Metals								
Prodassum (K) -0.1 0.1 mgL 28-58P-05 HAS R329419 Sodium (Na) -1 1 mgL 28-58P-05 HAS R329419 Sodium (Na) -1 1 mgL 28-58P-05 HAS R329419 Manganese (Mn) -0.001 0.001 mgL 28-58P-05 HAS R329419 Phosphorus, Total -0.001 0.001 mgL 28-58P-05 HAS R329419 Anmonia-N -0.005 0.005 mgL 28-58P-05 SHC R329419 Choride (D) -1 1 mgL 28-58P-05 ZOW R328212 Rutine Water Analysis - Low Level -1 1 mgL 27-58P-05 W/K R328519 Nitrate-Nitrite-N -0.006 0.006 mgL 26-58P-05 SHC R328519 Nitrite-N -0.006 0.005 mgL 27-58P-05 SHC R328519 Sulphate (SOA) -5.7 0.1 pH 27-58P-05 SHC	Calcium (Ca)	<0.5		0.5	mg/L		28-SEP-05	HAS	R329419
Magnesulm (Wg) 40.1 0.1 mg/L 228-EP-05 HAS R228419 Sodium (Na) -1 1 mg/L 228-EP-05 HAS R329419 Manganese (Mn) -0.005 0.006 mg/L 228-EP-05 HAS R329419 Phosphorus, Total -0.001 0.001 mg/L 29-SEP-05 FLA R329169 Ammonie-N -0.005 0.005 mg/L 29-SEP-06 TLA R329169 Chioride (Cl) -1 1 mg/L 29-SEP-05 V/A R329169 Nitrate-Nitrite-N -0.006 0.006 mg/L 28-SEP-06 TLA R328419 Nitrate-N -0.006 0.006 mg/L 26-SEP-05 SHC R32819 Nitrite-N -0.006 0.000 mg/L 26-SEP-05 SHC R32819 Sulphate (SO4) -0.005 0.002 mg/L 27-SEP-05 JWU R328649 Conductivity and Total Alkalinity - - - - -	Potassium (K)	<0.1		0.1	mg/L		28-SEP-05	HAS	R329419
Solulini (va) -<1	Magnesium (Mg)	<0.1		0.1	mg/L		28-SEP-05	HAS	R329419
Indiff Counds Counds<	Iron (Fo)	<1		1	mg/∟ mg/l		28-SEP-05	HAS	R329419
Markanises (min) Kouon Bodd BigL 2d-SEP-05 FRC R320407 Ammonia-N -0.001 0.001 mg/L 29-SEP-05 SHC R320407 Ammonia-N -0.006 0.005 mg/L 28-SEP-05 SHC R320407 Routine Water Analysis - Low Level - 1 mg/L 29-SEP-05 ZOW R22822 Nitrate-Nitrite-N -0.006 0.006 mg/L 26-SEP-05 SHC R328519 Nitrate-Nitrite-N -0.006 0.006 mg/L 26-SEP-05 SHC R328519 Sulphate (S04) -0.005 0.005 mg/L 26-SEP-05 SHC R328519 pH 5.7 0.1 pH 27-SEP-05 PTT R328648 Conductivity (EC) 0.9 0.2 uS/cm 27-SEP-05 PTT R328648 Carbonate (HCO3) -5 5 mg/L 27-SEP-05 PTT R328648 Alkalinity - 5 5 mg/L 27-SEP	Manganese (Mn)	<0.005		0.005	mg/L		20-3EP-03	HAS	R329419
Phosphorus, Total -0.001 mg/L 29-SEP-05 SHC R330407 Ammonia-N -0.005 0.005 mg/L 28-SEP-05 TL R329165 Routine Water Anatysis - Low Level 1 mg/L 29-SEP-05 VWR R328877 Routine Water Anatysis - Low Level 1 mg/L 27-SEP-05 WVR R328877 Nitrate-Nitrite-N -0.006 0.006 mg/L 26-SEP-05 SHC R328817 Nitrite-N -0.006 0.006 mg/L 26-SEP-05 SHC R328519 Nitrite-N -0.002 0.002 mg/L 26-SEP-05 SHC R328519 Sulphate (SO4) -0.005 0.05 mg/L 27-SEP-05 SHC R328619 Conductivity (EC) 0.9 0.2 uls/cm 27-SEP-05 PTT R328648 Carbonate (HCO3) -5 5 mg/L 27-SEP-05 PTT R328648 Alkalinity, Total (as CaCO3) -5 5 mg/L 27-SEP-05 PTT		<0.001		0.001	ing/L		20-0EF-00	GALI	1223413
Ammonia-N <0.006 mg/L 28-SEP-05 TL R329165 Total Organic Carbon <1	Phosphorus, Total	<0.001		0.001	mg/L		29-SEP-05	SHC	R330407
Total Organic Carbon <1 mg/L 29-SEP-05 ZOW R329822 Routine Water Analysis - Low Level <1	Ammonia-N	<0.005		0.005	mg/L		28-SEP-05	TL	R329165
Routine Water Analysis - Low Level - I mg/L 27.5EP-05 WYA R328887 Chloride (Cl) <1	Total Organic Carbon	<1		1	mg/L		29-SEP-05	ZOW	R329822
Choride (Cl) <1 1 mg/L 27.SEP-05 WYA R328887 Nirtate-Nirtite-N <0.006	Routine Water Analysis - Low Level				0				
Nitrate+Nitrite-N <0.006 0.006 mg/L 26-SEP-05 SHC R328519 Nitrate-N <0.006	Chloride (Cl)	<1		1	mg/L		27-SEP-05	WYA	R328887
Nitrate-N <0.006 0.006 mg/L 26-SEP-05 SHC R328519 Nitrite-N <0.002	Nitrate+Nitrite-N	<0.006		0.006	mg/L		26-SEP-05	SHC	R328519
Nitrite-N <0.002 0.002 mg/L 26-SEP-05 SHC R328519 Sulphate (SO4) <0.05	Nitrate-N	<0.006		0.006	mg/L		26-SEP-05	SHC	R328519
Sulphate (SO4) <0.05 mg/L 27-SEP-05 JWU R328301 pH, Conductivity and Total Alkalinity pH 5.7 0.1 pH 27-SEP-05 PTT R328648 Conductivity (EC) 0.9 0.2 uS/cm 27-SEP-05 PTT R328648 Bicarbonate (HCO3) <5	Nitrite-N	<0.002		0.002	mg/L		26-SEP-05	SHC	R328519
pH, Conductivity and Total Alkalinity r	Sulphate (SO4)	<0.05		0.05	mg/L		27-SEP-05	JWU	R328301
pH 5.7 0.1 pH 27.SEP.05 PTT R328648 Conductivity (EC) 0.9 0.2 uS/cm 27.SEP.05 PTT R328648 Bicarbonate (HCO3) <5	pH, Conductivity and Total Alkalinity								
Conductivity (EC) 0.9 0.2 uS/cm 27-SEP-05 PTT R328648 Bicarbonate (HCO3) <5	рН	5.7		0.1	pН		27-SEP-05	PTT	R328648
Bicarbonate (HCO3) <5 mg/L 27-SEP-05 PTT R328648 Carbonate (CO3) <5	Conductivity (EC)	0.9		0.2	uS/cm		27-SEP-05	PTT	R328648
Carbonate (CO3) <5 mg/L 27-SEP-05 PTT R328648 Hydroxide (OH) <5	Bicarbonate (HCO3)	<5		5	mg/L		27-SEP-05	PTT	R328648
Alkalinity, Total (as CaCO3) <5	Carbonate (CO3)	<5		5	mg/L		27-SEP-05	PTT	R328648
Initiality, four (as Cacos) 25 5 Itig/L 27-5EP-05 PT1 R328048 Ion Balance Ion Balance Low TDS % 28-5EP-05 28-5EP-05 44 mg/L 28-5EP-05 44	Hydroxide (OH)	<5		5	mg/L		27-SEP-05	PTT	R328648
Ion Balance Low TDS % 28-SEP-05 TDS (Calculated) <1	Ion Balance Calculation	<0		э	mg/∟		27-3EF-03	PII	K320040
TDS (Calculated) <1 mg/L 28-SEP-05 Hardness (as CaCO3) <1	Ion Balance	Low TDS			%		28-SEP-05		
Hardness (as CaCO3) <1 mg/L 28-SEP-05 K ICP metals for routine water <0.5	TDS (Calculated)	<1			ma/L		28-SEP-05		
ICP metals for routine water <	Hardness (as CaCO3)	<1			mg/L		28-SEP-05		
Calcium (Ca) <0.5 mg/L 27-SEP-05 AHY R328721 Potassium (K) <0.1	ICP metals for routine water				2				
Potassium (K) <0.1 0.1 mg/L 27-SEP-05 AHY R328721 Magnesium (Mg) <0.1	Calcium (Ca)	<0.5		0.5	mg/L		27-SEP-05	AHY	R328721
Magnesium (Mg) Sodium (Na) <0.1 mg/L 27-SEP-05 AHY R328721 L322418-2 FIELD BLANK <1	Potassium (K)	<0.1		0.1	mg/L		27-SEP-05	AHY	R328721
Sodium (Na) <1 mg/L 27-SEP-05 AHY R328721 L322418-2 FIELD BLANK Sample Date: 23-SEP-05 Image: Comparison of the comparison	Magnesium (Mg)	<0.1		0.1	mg/L		27-SEP-05	AHY	R328721
L322418-2 FIELD BLANK Sample Date: 23-SEP-05 Matrix: WATER Dissolved Metals - CCME Silver (Ag)	Sodium (Na)	<1		1	mg/L		27-SEP-05	AHY	R328721
Sample Date: 23-SEP-05 Image: Constraint of the state of the stat	L322418-2 FIELD BLANK								
Matrix: WATER Matrix: WATER Dissolved Metals - CCME Image: Comparison of the system Image	Sample Date: 23-SEP-05								
Dissolved Metals - CCME Image: Complexity of the image:	Matrix: WATER								
Dissolved Trace Metals < </td <td>Dissolved Metals - CCME</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Dissolved Metals - CCME								
Aluminum (Al) 0.02 0.01 mg/L 27-SEP-05 CLL R329381 Arsenic (As) <0.004	DISSOIVED I race Metals Silver (Ag)	~0.0001	RAMP	0.0001	ma/l		27-SED 05	CU	P320294
Arsenic (As) <0.0004 0.0004 mg/L 27-SEP-05 CLL R329381 Boron (B) <0.05	Aluminum (Al)	0.0001		0.0001	ma/l		27-SEP-05	CLL	R329381
Boron (B) <0.05 0.05 mg/L 27-SEP-05 CLL R329381	Arsenic (As)	<0.0004		0.0004	ma/l		27-SEP-05	CLL	R329381
	Boron (B)	<0.05		0.05	mg/L		27-SEP-05	CLL	R329381
Barium (Ba) <0.003 0.003 mg/L 27-SEP-05 CLL R329381	Barium (Ba)	<0.003		0.003	mg/L		27-SEP-05	CLL	R329381
Beryllium (Be) <0.001 0.001 mg/L 27-SEP-05 CLL R329381	Beryllium (Be)	<0.001		0.001	mg/L		27-SEP-05	CLL	R329381
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Sample Details/Parameters	Result	Qualifier	D.L.	Units	Extracted	Analyzed	By	Batch
L322410-2 FIELD BLANK								
Motrix: WATER								
Dissolved Metals - CCME								
Dissolved Trace Metals								
Cadmium (Cd)	<0.0001		0.0001	mg/L		27-SEP-05	CLL	R329381
Cobalt (Co)	<0.002		0.002	mg/L		27-SEP-05	CLL	R329381
Chromium (Cr)	<0.005		0.005	mg/L		27-SEP-05	CLL	R329381
Copper (Cu)	<0.001		0.001	mg/L		27-SEP-05	CLL	R329381
Mercury (Hg)	<0.0001		0.0001	mg/L		27-SEP-05	CLL	R329381
Lithium (Li)	<0.003		0.003	mg/L		27-SEP-05	CLL	R329381
Molybdenum (Mo)	<0.005		0.005	mg/L		27-SEP-05	CLL	R329381
Nickel (Ni)	<0.002		0.002	mg/L		27-SEP-05	CLL	R329381
Lead (Pb)	<0.0001		0.0001	mg/L		27-SEP-05	CLL	R329381
Antimony (Sb)	<0.0004		0.0004	mg/L		27-SEP-05	CLL	R329381
Selenium (Se)	<0.0004		0.0004	mg/L		27-SEP-05	CLL	R329381
Tin (Sn) Titopium (Ti)	<0.05		0.05	mg/∟		27-SEP-05	CLL	R329381
Thallium (TI)	<0.001		0.001	mg/L		21-3EP-05		R329381
Litanium (11)	<0.0001		0.0001	mg/∟		27-SEP-05		R329301
Vanadium (V)	<0.0001		0.0001	mg/L		27-SEP-00	CLL	D220201
$Z_{inc}(Z_n)$	0.003		0.001	mg/L		27-SEP-05		R320381
Dissolved Major Metals	0.003		0.002	ing/∟			OLL	11323301
Calcium (Ca)	<0.5		0.5	ma/L		28-SEP-05	HAS	R329418
Potassium (K)	<0.1		0.1	ma/L		28-SEP-05	HAS	R329418
Magnesium (Mg)	<0.01		0.01	mg/L		28-SEP-05	HAS	R329418
Sodium (Na)	0.6		0.5	mg/L		28-SEP-05	HAS	R329418
Iron (Fe)	< 0.005		0.005	mg/L		28-SEP-05	HAS	R329418
Manganese (Mn)	<0.001		0.001	mg/L		28-SEP-05	HAS	R329418
Total Metals - CCME								
Total Trace Metals								
Silver (Ag)	<0.0004		0.0004	mg/L		27-SEP-05	CLL	R329156
Aluminum (Al)	0.02		0.01	mg/L		27-SEP-05	CLL	R329156
Arsenic (As)	<0.0004		0.0004	mg/L		27-SEP-05	CLL	R329156
Boron (B)	< 0.05		0.05	mg/L		27-SEP-05	CLL	R329156
Barium (Ba)	< 0.003		0.003	mg/L		27-SEP-05	CLL	R329156
Codmium (Cd)	<0.001		0.001	mg/∟		27-SEP-05		R329150
Cobalt (Co)	<0.0002		0.0002	mg/L		27-SEP-05	CLL	R329100
Chromium (Cr)	<0.002		0.002	mg/L		27-SEP-05		R329150
Copper (Cu)	<0.003		0.000	ma/l		27-SEP-05	CLL	R329156
Mercury (Ha)	<0.0002		0.0002	ma/L		27-SEP-05	CLL	R329156
Lithium (Li)	<0.01		0.01	mg/L		27-SEP-05	CLL	R329156
Molybdenum (Mo)	<0.005		0.005	mg/L		27-SEP-05	CLL	R329156
Nickel (Ni)	<0.002		0.002	mg/L		27-SEP-05	CLL	R329156
Lead (Pb)	0.0001		0.0001	mg/L		27-SEP-05	CLL	R329156
Antimony (Sb)	<0.0004		0.0004	mg/L		27-SEP-05	CLL	R329156
Selenium (Se)	<0.0004		0.0004	mg/L		27-SEP-05	CLL	R329156
Tin (Sn)	<0.05		0.05	mg/L		27-SEP-05	CLL	R329156
Titanium (Ti)	<0.001		0.001	mg/L		27-SEP-05	CLL	R329156
Thallium (TI)	<0.0001		0.0001	mg/L		27-SEP-05	CLL	R329156
Uranium (U)	<0.0001		0.0001	mg/L		27-SEP-05	CLL	R329156
Vanadium (V)	<0.001		0.001	mg/L		27-SEP-05	CLL	R329156
Zinc (Zn)	<0.004		0.004	mg/L		27-SEP-05	CLL	R329156
Total Major Metals								

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Sample Details/Parameters	Result	Qualifier	D.L.	Units	Extracted	Analyzed	By	Batch
I 322418-2 FIFL D BLANK								
Sample Date: 23-SEP-05								
Matrix: WATER								
Total Metals - CCME								
Total Major Metals								
Calcium (Ca)	<0.5		0.5	mg/L		28-SEP-05	HAS	R329419
Potassium (K)	<0.1		0.1	mg/L		28-SEP-05	HAS	R329419
Magnesium (Mg)	<0.1		0.1	mg/L		28-SEP-05	HAS	R329419
Sodium (Na)	<1		1	mg/L		28-SEP-05	HAS	R329419
Iron (Fe)	<0.005		0.005	mg/L		28-SEP-05	HAS	R329419
Manganese (Mn)	<0.001		0.001	mg/L		28-SEP-05	HAS	R329419
Phosphorus, Total	<0.001		0.001	mg/L		29-SEP-05	SHC	R330407
Ammonia-N	<0.005		0.005	mg/L		28-SEP-05	TL	R329165
Total Organic Carbon	<1		1	mg/L		29-SEP-05	ZOW	R329822
Routine Water Analysis - Low Level				0			-	
Chloride (CI)	<1		1	mg/L		27-SEP-05	WYA	R328887
Nitrate+Nitrite-N	<0.006		0.006	mg/L		26-SEP-05	SHC	R328519
Nitrate-N	<0.006		0.006	mg/L		26-SEP-05	SHC	R328519
Nitrite-N	< 0.002		0.002	ma/L		26-SEP-05	SHC	R328519
Sulphate (SO4)	< 0.05		0.05	ma/L		27-SEP-05	JWU	R328301
pH. Conductivity and Total Alkalinity				5				
pH	6.6		0.1	pН		27-SEP-05	PTT	R328648
Conductivity (EC)	3.7		0.2	uS/cm		27-SEP-05	PTT	R328648
Bicarbonate (HCO3)	<5		5	mg/L		27-SEP-05	PTT	R328648
Carbonate (CO3)	<5		5	mg/L		27-SEP-05	PTT	R328648
Hydroxide (OH)	<5		5	mg/L		27-SEP-05	PTT	R328648
Alkalinity, Total (as CaCO3)	<5		5	mg/L		27-SEP-05	PTT	R328648
Ion Balance Calculation								
Ion Balance	Low TDS			%		28-SEP-05		
	<1			mg/L		28-SEP-05		
Haldness (as CaCO3)	<1			mg/∟		28-SEP-05		
Calcium (Ca)	<0.5		0.5	ma/l		27-SEP-05	ΔΗΥ	R328721
Potassium (K)	<0.1		0.0	ma/L		27-SEP-05	AHY	R328721
Magnesium (Mg)	<0.1		0.1	mg/L		27-SEP-05	AHY	R328721
Sodium (Na)	<1		1	mg/L		27-SEP-05	AHY	R328721
L322418-3 TWIN CREEK STATION 11				-				
Sample Date: 23-SEP-05								
Matrix: WATER								
Dissolved Metals - CCME								
Dissolved Trace Metals								
Silver (Ag)	<0.0001	RAMB	0.0001	mg/L		27-SEP-05	CLL	R329381
Aluminum (Al)	<0.01		0.01	mg/L		27-SEP-05	CLL	R329381
Arsenic (As)	0.0004		0.0004	mg/L		27-SEP-05	CLL	R329381
Boron (B)	<0.05		0.05	mg/L		27-SEP-05	CLL	R329381
Banullium (Ba)	0.027		0.003	mg/L		27-SEP-05	CLL	R329381
Beryillum (Be)	<0.001		0.001	mg/L		27-SEP-05	CLL	K329381
Cadmium (Cd)	<0.0001		0.0001	mg/L		21-3EP-05	CLL	R329381
Cuball (CU) Chromium (Cr)	<0.002		0.002	mg/L		27-SED 05		R329381
Copper (Cu)	<0.005		0.005	mg/L		27-SEP-05		R329381
Mercury (Ha)			0.001	ma/l		27-SEP-05	CLL	R329381
Lithium (Li)	0.005		0.003	ma/l		27-SEP-05		R329381

Sample Details/Parameters	Result	Qualifier D.L.	Units	Extracted	Analyzed	By	Batch
L322418-3 TWIN CREEK STATION 11							
Matrix: WATER Dissolved Metals - CCME							
Dissolved Metals - COME Dissolved Trace Metals							
Molvbdenum (Mo)	<0.005	0.005	ma/L		27-SEP-05	CLI	R329381
Nickel (Ni)	<0.002	0.002	ma/L		27-SEP-05	CLL	R329381
Lead (Pb)	<0.0001	0.0001	mg/L		27-SEP-05	CLL	R329381
Antimony (Sb)	<0.0004	0.0004	mg/L		27-SEP-05	CLL	R329381
Selenium (Se)	<0.0004	0.0004	mg/L		27-SEP-05	CLL	R329381
Tin (Sn)	<0.05	0.05	mg/L		27-SEP-05	CLL	R329381
Titanium (Ti)	<0.001	0.001	mg/L		27-SEP-05	CLL	R329381
Thallium (TI)	<0.0001	0.0001	mg/L		27-SEP-05	CLL	R329381
Uranium (U)	0.0002	0.0001	mg/L		27-SEP-05	CLL	R329381
Vanadium (V)	<0.001	0.001	mg/L		27-SEP-05	CLL	R329381
Zinc (Zn)	0.004	0.002	mg/L		27-SEP-05	CLL	R329381
Dissolved Major Metals							
Calcium (Ca)	64.4	0.5	mg/L		28-SEP-05	HAS	R329418
Potassium (K)	1.1	0.1	mg/L		28-SEP-05	HAS	R329418
Magnesium (Mg)	16.2	0.01	mg/L		28-SEP-05	HAS	R329418
Sodium (Na)	6.2	0.5	mg/L		28-SEP-05	HAS	R329418
Iron (Fe)	0.020	0.005	mg/L		28-SEP-05	HAS	R329418
Manganese (Mn)	0.001	0.001	mg/L		28-SEP-05	HAS	R329418
Total Metals - COME							
Silver (Ag)	~0.0004	0.0004	ma/l		27-SEP-05	CU	R320156
Aluminum (Al)	0.01	0.0004	mg/L		27-SEP-05	CLL	R320156
Arsenic (As)	0.005	0.004	mg/L		27-SEP-05	CLL	R329156
Boron (B)	<0.05	0.05	ma/l		27-SEP-05	CLL	R329156
Barium (Ba)	0.029	0.003	ma/L		27-SEP-05	CLL	R329156
Bervllium (Be)	<0.001	0.001	ma/L		27-SEP-05	CLL	R329156
Cadmium (Cd)	<0.0002	0.0002	mg/L		27-SEP-05	CLL	R329156
Cobalt (Co)	<0.002	0.002	mg/L		27-SEP-05	CLL	R329156
Chromium (Cr)	< 0.005	0.005	mg/L		27-SEP-05	CLL	R329156
Copper (Cu)	<0.001	0.001	mg/L		27-SEP-05	CLL	R329156
Mercury (Hg)	<0.0002	0.0002	mg/L		27-SEP-05	CLL	R329156
Lithium (Li)	<0.01	0.01	mg/L		27-SEP-05	CLL	R329156
Molybdenum (Mo)	<0.005	0.005	mg/L		27-SEP-05	CLL	R329156
Nickel (Ni)	<0.002	0.002	mg/L		27-SEP-05	CLL	R329156
Lead (Pb)	<0.0001	0.0001	mg/L		27-SEP-05	CLL	R329156
Antimony (Sb)	<0.0004	0.0004	mg/L		27-SEP-05	CLL	R329156
Selenium (Se)	0.0006	0.0004	mg/L		27-SEP-05	CLL	R329156
Tin (Sn)	<0.05	0.05	mg/L		27-SEP-05	CLL	R329156
Titanium (Ti)	0.001	0.001	mg/L		27-SEP-05	CLL	R329156
Thallium (TI)	<0.0001	0.0001	mg/L		27-SEP-05	CLL	R329156
Uranium (U)	0.0002	0.0001	mg/L		27-SEP-05	CLL	R329156
Vanadium (V)	<0.001	0.001	mg/L		27-SEP-05	CLL	K329156
	<0.004	0.004	mg/L		21-3EP-05	CLL	R329156
I OTAL MAJOR METALS	64.0		ma/l		28-SED-05	ЦЛС	P320/10
Potassium (K)	0 4 .0 1 1	0.0	ma/l		28-SEP-05	ЦЛАЗ	R320/10
Magnesium (Mg)	1.1	0.1	ma/l		28-SEP-05	ЦЛАЗ	R320/10
Sodium (Na)	6		ma/l		28-SEP-05	HAG	R320/10
Iron (Fe)	0 029		ma/l		28-SEP-05	HAS	R329419
Manganese (Mn)	0.003	0.000	ma/l		28-SEP-05	HAS	R329419
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Sample Details/Parameters	Result	Qualifier	D.L.	Units	Extracted	Analyzed	By	Batch
L322418-3 TWIN CREEK STATION 11								
Sample Date: 23-SEP-05								
Matrix: WATER								
Total Metals - CCME								
Phosphorus, Total	0.003		0.001	ma/l		29-SEP-05	SHC	R330407
Ammonia-N	0.019		0.001	ma/l		28-SEP-05	ті	R320165
Total Organic Carbon	0.013		0.000	mg/L		20 SEP 05		D220022
Poutine Water Analysis - Low Level	23		'	mg/∟		29-021-00	2000	N329022
Chloride (CI)	6		1	ma/l		27 SED 05		700000
Nitroto Mitrito M	-0.006			mg/L		27-3LF-03	SUC	R320007
	<0.006		0.006	mg/∟			300	R320019
	<0.006		0.006	mg/∟		20-SEP-05	SHC	R328519
	0.002		0.002	mg/L		26-SEP-05	SHC	R328519
Sulphate (SO4)	27.8		0.05	mg/L		27-SEP-05	JWU	R328301
	0.0			ъЦ			DTT	D000640
pri Conductivity (EC)	0.2		0.1	µ⊓ uS/cm		27-3EF-03		R320040
Bicarbonato (HCO2)	433		0.2	uo/cm		27-SEF-05		R320040
Carbonate (CO3)	233		5	mg/∟		27-SEP-05	PTT	R328048
Caliboliate (CCS)	<5		5	mg/L		27-SEF-05		R320040
$\frac{1}{2}$	<0		5	mg/L		27-SEP-05		R320040
Ion Balance Calculation	191		5	mg/∟		27-521-05	FII	1320040
Ion Balance	102			%		28-SEP-05		
TDS (Calculated)	232			ma/l		28-SEP-05		
Hardness (as CaCO3)	218			ma/L		28-SEP-05		
ICP metals for routine water	210							
Calcium (Ca)	60.9		0.5	mg/L		27-SEP-05	AHY	R328721
Potassium (K)	1.0		0.1	mg/L		27-SEP-05	AHY	R328721
Magnesium (Mg)	16.0		0.1	mg/L		27-SEP-05	AHY	R328721
Sodium (Na)	6		1	mg/L		27-SEP-05	AHY	R328721
L322418-4 TWIN CREEK - DUP STATION 11								
Sample Date: 23-SEP-05								
Matrix: WATER								
Dissolved Metals - CCME								
Dissolved Trace Metals								
Silver (Ag)	<0.0001	RAMB	0.0001	mg/L		27-SEP-05	CLL	R329381
Aluminum (Al)	<0.01		0.01	mg/L		27-SEP-05	CLL	R329381
Arsenic (As)	0.0005		0.0004	mg/L		27-SEP-05	CLL	R329381
Boron (B)	<0.05		0.05	mg/L		27-SEP-05	CLL	R329381
Barium (Ba)	0.028		0.003	mg/L		27-SEP-05	CLL	R329381
Beryllium (Be)	<0.001		0.001	mg/L		27-SEP-05	CLL	R329381
Cadmium (Cd)	<0.0001		0.0001	mg/L		27-SEP-05	CLL	R329381
Cobalt (Co)	<0.002		0.002	mg/L		27-SEP-05	CLL	R329381
Chromium (Cr)	<0.005		0.005	mg/L		27-SEP-05	CLL	R329381
Copper (Cu)	<0.001		0.001	mg/L		27-SEP-05	CLL	R329381
Mercury (Hg)	<0.0001		0.0001	mg/L		27-SEP-05	CLL	R329381
Lithium (Li)	0.005		0.003	mg/L		27-SEP-05	CLL	R329381
Molybdenum (Mo)	<0.005		0.005	mg/L		27-SEP-05	CLL	R329381
Nickel (Ni)	<0.002		0.002	mg/L		27-SEP-05	CLL	R329381
Lead (Pb)	<0.0001		0.0001	mg/L		27-SEP-05	CLL	R329381
Antimony (Sb)	<0.0004		0.0004	mg/L		27-SEP-05	CLL	R329381
Selenium (Se)	<0.0004		0.0004	mg/L		27-SEP-05	CLL	R329381
Lin (Sn)	<0.05		0.05	mg/L		27-SEP-05	CLL	R329381
l itanium (11)	<0.001		0.001	mg/L		27-SEP-05	CLL	K329381

Sample Details/Parameters	Result	Qualifier D	.L. (Units	Extracted	Analyzed	By	Batch
L322418-4 TWIN CREEK - DUP STATION 11								
Sample Date: 23-SEP-05								
Matrix: WATER								
Dissolved Metals - CCME								
Dissolved Trace Metals	-0.0001		001	ma/l		27 SED 05	<u></u>	D220204
Liranium (II)	<0.0001	0.0	001	mg/L		27-3LF-03		R329301
Vanadium (V)	~0.001	0.0	001	mg/L		27-SEP-05		R329301
$Z_{inc}(Z_n)$	<0.001	0.0		mg/L mg/l		27-SEP-05	CLL	R320381
Dissolved Major Metals	<0.002	0.0		iiig/E			OLL	1020001
Calcium (Ca)	65.1	0	.5	ma/L		28-SEP-05	HAS	R329418
Potassium (K)	1.1	0	.1	mg/L		28-SEP-05	HAS	R329418
Magnesium (Mg)	16.3	0.	01	mg/L		28-SEP-05	HAS	R329418
Sodium (Na)	6.2	0	.5	mg/L		28-SEP-05	HAS	R329418
Iron (Fe)	0.022	0.0	005	mg/L		28-SEP-05	HAS	R329418
Manganese (Mn)	0.001	0.0	001	mg/L		28-SEP-05	HAS	R329418
Total Metals - CCME				-				
Total Trace Metals								
Silver (Ag)	<0.0004	0.0	004	mg/L		27-SEP-05	CLL	R329156
Aluminum (Al)	0.01	0.	01	mg/L		27-SEP-05	CLL	R329156
Arsenic (As)	0.0005	0.0	004	mg/L		27-SEP-05	CLL	R329156
Boron (B)	<0.05	0.	05	mg/L		27-SEP-05	CLL	R329156
Barium (Ba)	0.029	0.0	003	mg/L		27-SEP-05	CLL	R329156
Beryllium (Be)	<0.001	0.0	001	mg/L		27-SEP-05	CLL	R329156
Cadmium (Cd)	<0.0002	0.0	002	mg/L		27-SEP-05	CLL	R329156
Cobalt (Co)	<0.002	0.0	002	mg/L		27-SEP-05	CLL	R329156
Chromium (Cr)	<0.005	0.0	005	mg/L		27-SEP-05	CLL	R329156
Copper (Cu)	<0.001	0.0	001	mg/L		27-SEP-05	CLL	R329156
Mercury (Hg)	<0.0002	0.0	002	mg/L		27-SEP-05	CLL	R329156
Lithium (Li)	<0.01	0.	01	mg/L		27-SEP-05	CLL	R329156
Molybdenum (Mo)	<0.005	0.0	005	mg/L		27-SEP-05	CLL	R329156
INICKEI (NI)	<0.002	0.0	002	mg/L		27-SEP-05	CLL	R329156
Lead (PD)	<0.0001	0.0	001	mg/L		27-SEP-05	CLL	R329156
Anumony (Sb)	<0.0004	0.0	004	mg/L		27-3EF-03		R329130
Tin (Sp)	<0.004	0.0	004	mg/L		27-SEP-05		R329100
Titanium (Ti)	0.001	0.	00	mg/L		27-SEP-05		R329150
Thallium (TI)	~0.001	0.0	001	ma/l		27-SEP-05	CLL	R320156
Uranium (U)	0.0001	0.0	001	ma/l		27-SEP-05	CLL	R329156
Vanadium (V)	<0.001	0.0	001	ma/l		27-SEP-05	CLL	R329156
Zinc (Zn)	< 0.004	0.0	004	ma/L		27-SEP-05	CLL	R329156
Total Maior Metals							011	
Calcium (Ca)	63.9	0	.5	mg/L		28-SEP-05	HAS	R329419
Potassium (K)	1.2	0	.1	mg/L		28-SEP-05	HAS	R329419
Magnesium (Mg)	16.0	0	.1	mg/L		28-SEP-05	HAS	R329419
Sodium (Na)	6		1	mg/L		28-SEP-05	HAS	R329419
Iron (Fe)	0.025	0.0	005	mg/L		28-SEP-05	HAS	R329419
Manganese (Mn)	0.001	0.0	001	mg/L		28-SEP-05	HAS	R329419
Phosphorus, Total	0.002	0.0	001	mg/L		29-SEP-05	SHC	R330407
Ammonia-N	0.018	0.0	005	mg/L		28-SEP-05	TL	R329165
Total Organic Carbon	23		1	mg/L		29-SEP-05	ZOW	R329822
Routine Water Analysis - Low Level				-				
Chloride (CI)	6	.	1	mg/L		27-SEP-05	WYA	R328887
Nitrate+Nitrite-N	<0.006	0.0	006	mg/L		26-SEP-05	SHC	R328519
				-				

Sample Details	s/Parameters	Result	Qualifier	D.L.	Units	Extracted	Analyzed	By	Batch
1 322418-4	TWIN CREEK - DUP STATION 11								
Sample Date:	23-SEP-05								
Matrix:	WATER								
Routine	Nater Analysis - Low Level								
	Nitrate-N	<0.006		0.006	mg/L		26-SEP-05	SHC	R328519
	Nitrite-N	<0.002		0.002	mg/L		26-SEP-05	SHC	R328519
	Sulphate (SO4)	27.7		0.05	mg/L		27-SEP-05	JWU	R328301
pH, Cor	ductivity and Total Alkalinity								
	рН	8.2		0.1	рН		27-SEP-05	PTT	R328648
	Conductivity (EC)	432		0.2	uS/cm		27-SEP-05	PTT	R328648
	Bicarbonate (HCO3)	231		5	mg/L		27-SEP-05	PTT	R328648
	Carbonate (CO3)	<5		5	mg/L		27-SEP-05	PII	R328648
	Hydroxide (OH)	<5		5	mg/L		27-SEP-05	PTT	R328648
lon Polr	Alkalinity, Total (as CaCOS)	190		5	mg/∟		21-322-03	PII	R328648
	Ion Balance	104			%		28-SEP-05		
	TDS (Calculated)	233			ma/L		28-SEP-05		
	Hardness (as CaCO3)	222			mg/L		28-SEP-05		
ICP met	als for routine water				0				
	Calcium (Ca)	61.8		0.5	mg/L		27-SEP-05	AHY	R328721
	Potassium (K)	1.0		0.1	mg/L		27-SEP-05	AHY	R328721
	Magnesium (Mg)	16.4		0.1	mg/L		27-SEP-05	AHY	R328721
	Sodium (Na)	6		1	mg/L		27-SEP-05	AHY	R328721
L322418-5	BUFFALO RIVER STATION 3								
Sample Date:	23-SEP-05								
Matrix:	WATER								
Dissolve	d Metals - CCME								
Dissolv	ed Trace Metals	0.0004						011	Decesso
	Silver (Ag)	<0.0001		0.0001	mg/L		27-SEP-05	CLL	R329381
	Arcenic (As)	0.01		0.01	mg/L		27-SEP-05		R329381
	Boron (B)	<0.004		0.0004	mg/L		27-SEP-05		R329301
	Barium (Ba)	0.042		0.003	mg/L		27-SEP-05	CLL	R329381
	Beryllium (Be)	< 0.001		0.001	ma/L		27-SEP-05	CLL	R329381
	Cadmium (Cd)	<0.0001		0.0001	mg/L		27-SEP-05	CLL	R329381
	Cobalt (Co)	<0.002		0.002	mg/L		27-SEP-05	CLL	R329381
	Chromium (Cr)	<0.005		0.005	mg/L		27-SEP-05	CLL	R329381
	Copper (Cu)	0.003		0.001	mg/L		27-SEP-05	CLL	R329381
	Mercury (Hg)	<0.0001		0.0001	mg/L		27-SEP-05	CLL	R329381
	Lithium (Li)	0.006		0.003	mg/L		27-SEP-05	CLL	R329381
	Molybdenum (Mo)	<0.005		0.005	mg/L		27-SEP-05	CLL	R329381
	Nickel (Ni)	<0.002		0.002	mg/L		27-SEP-05	CLL	R329381
	Lead (Pb)	<0.0001		0.0001	mg/L		27-SEP-05	CLL	R329381
	Antimony (SD)	<0.0004		0.0004	mg/L		27-SEP-05	CLL	R329381
	Tin (Sp)	<0.0004		0.0004	mg/L		27-SEP-05		R329381
	Titanium (Ti)	<0.05		0.05	mg/L		27-SEP-05		R329301
	Thallium (TI)	<0.001		0.0001	ma/l		27-SEP-05	CLL	R329381
	Uranium (U)	0.0003		0.0001	ma/L		27-SEP-05	CLL	R329381
	Vanadium (V)	<0.001		0.001	mg/L		27-SEP-05	CLL	R329381
	Zinc (Zn)	0.003		0.002	mg/L		27-SEP-05	CLL	R329381
Dissolv	ed Major Metals				2				
	Calcium (Ca)	38.8		0.5	mg/L		28-SEP-05	HAS	R329418
	Potassium (K)	0.9		0.1	mg/L		28-SEP-05	HAS	R329418
	Magnesium (Mg)	9.63		0.01	mg/L		28-SEP-05	HAS	R329418

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Extracted	Analyzed	By	Batch
L322418-5 BUFFALO RIVER STATION 3								
Sample Date: 23-SEP-05								
Matrix: WATER								
Dissolved Metals - CCME								
Sodium (Na)	5.8		0.5	ma/l		28-SEP-05	HAS	R329418
Iron (Fe)	0.063		0.005	ma/l		28-SEP-05	HAS	R329418
Manganese (Mn)	<0.001		0.001	ma/L		28-SEP-05	HAS	R329418
Total Metals - CCME				5				
Total Trace Metals								
Silver (Ag)	<0.0004		0.0004	mg/L		28-SEP-05	CLL	R329421
Aluminum (Al)	2.96	RAMB	0.01	mg/L		28-SEP-05	CLL	R329421
Arsenic (As)	0.0016		0.0004	mg/L		28-SEP-05	CLL	R329421
Boron (B)	<0.05		0.05	mg/L		28-SEP-05	CLL	R329421
Barium (Ba)	0.072		0.003	mg/L		28-SEP-05	CLL	R329421
Beryllium (Be)	<0.001		0.001	mg/L		28-SEP-05	CLL	R329421
Cadmium (Cd)	<0.0002		0.0002	mg/L		28-SEP-05	CLL	R329421
Cobalt (CO)	<0.002		0.002	mg/L		28-5EP-05	CLL	R329421
Corport (Cr)	<0.005		0.005	mg/∟		28-SEP-05	CLL	R329421
Copper (Cu) Moreury (Ha)	0.003		0.001	mg/L		20-3EF-03		R329421
Lithium (Li)	<0.0002		0.0002	mg/L		20-3LF-03		R329421
Molybdenum (Mo)	<0.01		0.01	mg/L		28-SEP-05		R320421
Nickel (Ni)	0.004		0.000	ma/l		28-SEP-05	CLL	R329421
Lead (Pb)	0.0014		0.0001	ma/l		28-SEP-05	CLL	R329421
Antimony (Sb)	< 0.0004		0.0004	ma/L		28-SEP-05		R329421
Selenium (Se)	<0.0004		0.0004	mg/L		28-SEP-05	CLL	R329421
Tin (Sn)	<0.05		0.05	mg/L		28-SEP-05	CLL	R329421
Titanium (Ti)	0.082		0.001	mg/L		28-SEP-05	CLL	R329421
Thallium (TI)	<0.0001		0.0001	mg/L		28-SEP-05	CLL	R329421
Uranium (U)	0.0005		0.0001	mg/L		28-SEP-05	CLL	R329421
Vanadium (V)	0.009		0.001	mg/L		28-SEP-05	CLL	R329421
Zinc (Zn)	0.009		0.004	mg/L		28-SEP-05	CLL	R329421
Total Major Metals								
Calcium (Ca)	34.6		0.5	mg/L		28-SEP-05	HAS	R329419
Potassium (K)	2.0		0.1	mg/L		28-SEP-05	HAS	R329419
	9.3		0.1	mg/∟		28-SEP-05	HAS	R329419
Sodium (Na)	/		1	mg/L		28-SEP-05	HAS	R329419
Mongonoon (Mn)	2.85		0.005	mg/∟		20-3EP-03	HAS	R329419
Manganese (Min)	0.052		0.001	iiig/∟		20-011-00	TIAG	1329419
Phosphorus, Total	0.073		0.001	ma/l		29-SEP-05	SHC	R330407
Ammonia-N	0.014		0.001	mg/L		28-SEP-05	ті	R320165
Total Organic Carbon	20		0.000	mg/L		20 CEI 00	701/	D220922
Routine Water Analysis - Low Level	20		1	iiig/∟		23-321-03	2000	N329022
Chloride (Cl)	3		1	ma/l		27-SEP-05		R328887
Nitrate+Nitrite-N	~0.006		0.006	mg/L		26-SEP-05	SHC	R328510
Nitrate-N			0.000	ma/l		26-SED 05	0110 0110	R320510
Nitrito_N			0.000	mg/L		20-0LF-00	SHC	D220019
$\frac{1}{2}$	10.4		0.002	mg/L		20-0EF-00		D220019
Sulphale (504)	18.1		0.05	mg/∟		21-3EP-03	JVVU	K328301
pri, Conductivity and Total Alkalinity	8.2		0.1	nН		27-SEP-05	ртт	R328648
Conductivity (FC)	245		0.2	uS/cm		27-SEP-05	PTT	R328648
Bicarbonate (HCO3)	125		5	ma/L		27-SEP-05	PTT	R328648
Carbonate (CO3)	<5		5	mg/L		27-SEP-05	PTT	R328648
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L322418-5 BUFFALO RIVER STATION 3 Sample Date: 23-SEP-05 Matrix: WATER Routine Water Analysis - Low Level pH, Conductivity and Total Alkalinity H-glorada (CM) Lon Balance: 103 Lon Balance: 103 Magnesium (Ma) 0.01 Lon Colume: 104 Lon Balance: 104 Lon Bal
Laz21163 BUFFALD KIVEK STATION 3 Sample Date: 23 SEP-05 Marine: WATER Routine Water Analysis - Low Level pH, Conductivity and Total Alkalinity Hydroxide (OH) - 55 5 mg/L 27 SEP-05 PTT R328048 hydroxide (OH) - 55 5 mg/L 27 SEP-05 PTT R328048 hon Balance Calculation Ion Balance Calculation Dis Balance Calculation
Sartipe Date: 2-3-5EP-00 mg/L 27-SEP-05 PTT R328648 PH, Conductivity and Total Akalinity -5 5 mg/L 27-SEP-05 PTT R328648 Ion Balance 103 5 mg/L 22-SEP-05 PTT R328648 Ion Balance 103 % 28-SEP-05 PTT R328648 Ion Balance 103 mg/L 28-SEP-05 PTT R328648 Ion Balance 103 mg/L 28-SEP-05 AHY R328721 Calclun (Ca) 31.9 0.5 mg/L 27-SEP-05 AHY R328721 Magnesium (Mg) 8.6 0.1 mg/L 27-SEP-05 AHY R328721 Sample Date: 23-SEP-05 MHY R328721 27-SEP-05 AHY R328721 L322418-6 BUFFALO RIVER - DUP STATION 3 Sample Date: 23-SEP-05 AHY R328731 Matric WATER Dissolved Matas 0.0005 0.0004 mg/L 27-SEP-05 CLL R329811 <td< td=""></td<>
Mano: WATEX Routine Water Analysis - Low Level pH, Conductivity and Total Alkalinity rst PL, Conductivity and Total Alkalinity -5 5 mgL 27-SEP-05 PTT R328648 Ion Balance Calculation 103 5 mgL 27-SEP-05 PTT R328648 Ion Balance Calculation 103 % 28-SEP-06 PTT R328648 IOP metals for routine water mgL 28-SEP-05 AHY R328721 Calcium (Ca) 31.9 0.5 mgL 27-SEP-05 AHY R328721 Scalum (Ng) 8.6 0.1 mgL 27-SEP-05 AHY R328721 Scalum (Ng) 8.6 0.1 mgL 27-SEP-05 AHY R328721 L322418-6 BUFFALO RIVER - DUP STATION 3 Sample Date: 32-SEP-05 AHY R328721 Soliver (Ag) <00001
Routine water Analysis - Low Level reg Conductivity and Total Alkalinity HP, Conde (CH) -5 6 mgL 27-SEP-05 PTT R328648 Ion Balance Calculation 103 5 mgL 27-SEP-05 PTT R328648 Ion Balance Calculation 103 % 28-SEP-05 PTT R328648 Ion Balance Calculation 130 mgL 28-SEP-05 PTT R328648 ICP medias for notine water Calcun (Ca) 31.9 0.5 mgL 27-SEP-05 AHY R328721 Magnesium (Mg) 8.6 0.1 mgL 27-SEP-05 AHY R328721 Sample Date: 23-SEP-05 MHY R328721 R328648 NHY R328721 L322418-6 BUFFALO RIVER - DUP STATION 3 Sample Date: 23-SEP-05 AHY R328721 Sample Date: 23-SEP-05 Matrix NATER R323831 R3393 Boron (B) <0.005
Implementation S mg/L 27-SEP-05 PTT R328648 Alkainity, Total (as CaCO3) 103 5 mg/L 27-SEP-05 PTT R328648 Ion Balance 103 % 28-SEP-05 PTT R328648 Ion Balance 103 % 28-SEP-05 PTT R328648 IDS (Calculated) 130 % 28-SEP-05 PTT R328648 IDS (Calculated) 130 mg/L 28-SEP-05 AHY R328721 Calcum (Ca) 31.9 0.5 mg/L 27-SEP-05 AHY R328721 Calcum (Na) 6 1 mg/L 27-SEP-05 AHY R328721 L322418-6 BUFFALO RIVER - DUP STATION 3 Sample Date: 28-SEP-06 CLL R329381 Aluminum (A) 0.01 0.001 mg/L 27-SEP-06 CLL R329381 Aluminum (A) 0.01 0.001 mg/L 27-SEP-06 CLL R329381 Aluminum (A) 0.041 0.01
Albalanity, Total (as CaCO3) 103 5 mgL 27.5EP.05 PTT R328048 Ion Balance Calculation Ion Balance 103 5 mgL 27.5EP.05 PTT R328048 Ion Balance 103 5 mgL 28.5EP.05 PTT R328048 Ion Balance 103 103 mgL 28.5EP.05 PTT R328048 Ion Balance 103 105 mgL 28.5EP.05 AHY R328721 Calcum (Ca) 31.9 0.5 mgL 27.5EP.05 AHY R328721 Potassium (M) 8.6 0.1 mgL 27.5EP.05 AHY R328721 L322418-6 BUFFALORIVER - DUP STATION 3 5 1 mgL 27.5EP.05 AHY R328721 L322418-6 BUFFALORIVER - DUP STATION 3 5 0.0001 0.0001 mgL 27.5EP.05 CLL R329381 Atarix: WATER Dissolved Metals - COME 0.001 0.001 mgL 27.5EP.05 CLL R329381
Ion Balance Calculation Ion Balance 100 0 mgL 2.8.8.6.6 1.11 Record Ion Balance 103 % 28-SEP-06 705 <td< td=""></td<>
International long Balance 103 % 22-SEP-05 TDS (Calculated) 130 mg/L 28-SEP-05 Hardness (ac CaC03) 115 mg/L 28-SEP-05 ICP metals for routine water 31.9 0.5 mg/L 27-SEP-05 AHY R328721 Potassium (K) 0.9 0.1 mg/L 27-SEP-05 AHY R328721 Sodium (Na) 6 1 mg/L 27-SEP-05 AHY R328721 L322418-6 BUFFALC RIVER - DUP STATION 3
TDS (Calculated) Hardness (as CaCO3) 130 mg/L 28-SEP-05 28-SEP-05 LCP metals for routine water Calcium (Ca) 31.9 0.5 mg/L 27-SEP-05 AHY R328721 Magnesium (Mg) 8.6 0.1 mg/L 27-SEP-05 AHY R328721 Sodium (Na) 6 1 mg/L 27-SEP-05 AHY R328721 Sodium (Na) 6 1 mg/L 27-SEP-05 AHY R328721 I322418-6 BUFFALO RIVER - DUP STATION 3 Sample Date: 23-SEP-05 CLL R329381 Matrix: WATER Dissolved Metals - CCME mg/L 27-SEP-05 CLL R329381 Matrix: WATER 0.0001 0.0001 mg/L 27-SEP-05 CLL R329381 Arsenic (As) 0.0005 0.0004 mg/L 27-SEP-05 CLL R329381 Beryllinn (Ba) 0.043 0.003 mg/L 27-SEP-05 CLL R329381 Cabairum (Ca) -0.001 0.001 mg/L
Hardness (as CaCO3) 115 mg/L 28-SEP-05 AHY R328721 Calcium (Ca) 31.9 0.5 mg/L 27-SEP-05 AHY R328721 Potassium (K) 0.9 0.1 mg/L 27-SEP-05 AHY R328721 Magnesium (Mg) 8.6 0.1 mg/L 27-SEP-05 AHY R328721 L322418-6 BUFFALO RIVER - DUP STATION 3 6 1 mg/L 27-SEP-05 AHY R328721 Marrix: WATER Dissolved Metals - CCME
ICP metals for routine water Calcium (Ca) 31.9 0.5 mg/L 27.5EP-05 AHY R328721 Magnesium (Mg) 8.6 0.1 mg/L 27.5EP-05 AHY R328721 Magnesium (Mg) 8.6 0.1 mg/L 27.5EP-05 AHY R328721 Sodium (Na) 8 1 mg/L 27.5EP-05 AHY R328721 L322418-6 BUFFALO RIVER - DUP STATION 3 8 1 mg/L 27.5EP-05 AHY R328721 L322418-6 BUFFALO RIVER - DUP STATION 3 8 1 mg/L 27.5EP-05 CLL R32931 Sample Date: 23.5EP-05 Matrix WATE R -
Calcium (Ca) 31,9 0.5 mg/L 27-SEP-05 AHY R328721 Magnesium (Mg) 8.6 0.1 mg/L 27-SEP-05 AHY R328721 Sodium (Na) 6 1 mg/L 27-SEP-05 AHY R328721 L322418-6 BUFFALO RIVER - DUP STATION 3 6 1 mg/L 27-SEP-05 AHY R328721 Matrix: WATER 5 WATER -
Potassium (K) 0.9 0.1 mg/L 27-SEP-05 AHY R328721 Magnesium (Mg) 8.6 0.1 mg/L 27-SEP-05 AHY R328721 L322418-6 BUFFALO RIVER - DUP STATION 3 6 1 mg/L 27-SEP-05 AHY R328721 Sample Date: 23-SEP-05 GLI Natrix: WATER -
Magnesium (Mg) 8.6 0.1 mg/L 27-SEP-05 AHY R328721 L322418-6 BUFFALO RIVER - DUP STATION 3 6 1 mg/L 27-SEP-05 AHY R328721 Sample Date: 23-SEP-05 Image: Comparison of the comparison of t
Sodium (Na) 6 1 mg/L 27-SEP-05 AHY R328721 L322418-6 BUFFALO RIVER - DUP STATION 3 Sample Date: 23-SEP-05 Image: Construct of the construction of the cons
L322418-6 BUFFALO RIVER - DUP STATION 3 sample Date: 23-SEP-05 Matrix: WATER Participation Participation </td
Sample Date: 23-SEP-05 Matrix: WATER Matrix: WATER Dissolved Metals - CCME Dissolved Metals - CCME nmg/L 27-SEP-05 CLL R329381 Aluminum (Al) 0.01 0.001 mg/L 27-SEP-05 CLL R329381 Arsenic (As) 0.0005 0.0004 mg/L 27-SEP-05 CLL R329381 Boron (B) <0.005
Matrix: WATER Image: Come and the sector of
Dissolved Metais - CCME Image: Comparison of the comparison of
Dissolved Trace Metals
Silver (Ag) <0.0001 mg/L 27-SEP-05 CLL R329381 Aluminum (Al) 0.01 0.01 mg/L 27-SEP-05 CLL R329381 Arsenic (As) 0.0005 0.004 mg/L 27-SEP-05 CLL R329381 Boron (B) <0.005
Aluminum (Al) 0.01 0.01 mg/L 27-SEP-05 CLL R329381 Arsenic (As) 0.0005 0.004 mg/L 27-SEP-05 CLL R329381 Boron (B) 0.043 0.003 mg/L 27-SEP-05 CLL R329381 Barium (Ba) 0.043 0.001 mg/L 27-SEP-05 CLL R329381 Beryllium (Be) <0.001
Arsenic (As) 0.0005 0.0004 mg/L 27-SEP-05 CLL R329381 Boron (B) <0.05
Boron (B) <0.05 mg/L 27-SEP-05 CLL R329381 Barium (Ba) 0.043 0.003 mg/L 27-SEP-05 CLL R329381 Beryllium (Be) <0.001
Barum (Ba) 0.043 0.003 mg/L 27-SEP-05 CLL R329381 Beryllium (Be) <0.001
Beryllium (Be) <0.001 mg/L 27-SEP-05 CLL R329381 Cadmium (Cd) <0.0001
Cadmium (Cd) 0.0001 mg/L 27-SEP-05 CLL R329381 Cobalt (Co) <0.002
Cobart (Co) <0.002
Chromium (Cr) 0.005 mg/L 27-SEP-05 CLL R329381 Copper (Cu) 0.002 0.001 mg/L 27-SEP-05 CLL R329381 Mercury (Hg) <0.0001
Copper (Cu)0.0020.001mg/L27-SEP-05CLLR329381Mercury (Hg)<0.001
Mercury (Hg)0.0001Hig/L27-SEP-05CLLR329381Lithium (Li)0.0060.003mg/L27-SEP-05CLLR329381Molybdenum (Mo)<0.005
Linician (Li)0.0000.005mg/L27-SEP-05CLLR329381Molybdenum (Mo)<0.005
Nickel (Ni) <0.002
Lead (Pb) <0.002
Antimony (Sb) <0.0001
Selenium (Se) <0.0004
Tin (Sn) <0.05 0.05 mg/L 27-SEP-05 CLL R329381 Titanium (Ti) <0.001
Titanium (Ti) <0.001 0.001 mg/L 27-SEP-05 CLL R329381 Thallium (Tl) <0.0001
Thallium (TI) <0.0001 0.0001 mg/L 27-SEP-05 CLL R329381 Uranium (U) 0.0004 0.0001 mg/L 27-SEP-05 CLL R329381 Vanadium (V) <0.001
Uranium (U) 0.0004 0.0001 mg/L 27-SEP-05 CLL R329381 Vanadium (V) <0.001
Vanadium (V) <0.001 mg/L 27-SEP-05 CLL R329381 Zinc (Zn) 0.003 0.002 mg/L 27-SEP-05 CLL R329381
Zinc (Zn) 0.003 0.002 mg/L 27-SEP-05 CLL R329381
Dissolved Major Metals
Calcium (Ca) 38.2 0.5 mg/L 28-SEP-05 HAS R329418
Potassium (K) 0.8 0.1 mg/L 28-SEP-05 HAS R329418
Magnesium (Mg) 9.16 0.01 mg/L 28-SEP-05 HAS R329418
Sodium (Na) 5.6 0.5 mg/L 28-SEP-05 HAS R329418
Iron (Fe) 0.060 0.005 mg/L 28-SEP-05 HAS R329418
Manganese (Mn) 0.001 mg/L 28-SEP-05 HAS R329418
Total Metals - CCME
Silver (Ag) <0.0004 0.0004 mg/L 28-SEP-05 CLL R329421

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Extracted	Analyzed	By	Batch
L322410-0 BUFFALO RIVER - DUP STATION 3 Sample Date: 23-SEP-05								
Motrix: WATER								
Total Metals - CCME								
Total Trace Metals								
Arsenic (As)	0.0016		0.0004	mg/L		28-SEP-05	CLL	R329421
Boron (B)	<0.05		0.05	mg/L		28-SEP-05	CLL	R329421
Barium (Ba)	0.076		0.003	mg/L		28-SEP-05	CLL	R329421
Beryllium (Be)	<0.001		0.001	mg/L		28-SEP-05	CLL	R329421
Cadmium (Cd)	<0.0002		0.0002	mg/L		28-SEP-05	CLL	R329421
Cobalt (Co)	<0.002		0.002	mg/L		28-SEP-05	CLL	R329421
Chromium (Cr)	<0.005		0.005	mg/L		28-SEP-05	CLL	R329421
Copper (Cu)	0.004		0.001	mg/L		28-SEP-05	CLL	R329421
Mercury (Hg)	<0.0002		0.0002	mg/L		28-SEP-05	CLL	R329421
Litnium (Li) Mali tedanum (Ma)	<0.01		0.01	mg/L		28-SEP-05	CLL	R329421
Nickel (Ni)	<0.005		0.005	mg/∟ mg/l		28-SEP-05		R329421
Nickei (Ni)	0.004		0.002	mg/L		20-3EF-03		R329421
Antimony (Sh)	0.0015		0.0001	mg/L		20-3LF-03		R329421 R320421
Selenium (Se)	0.0000		0.0004	mg/L		28-SEP-05	CLL	R329421
Tin (Sn)	<0.05		0.0004	ma/l		28-SEP-05	CLL	R329421
Titanium (Ti)	0.070		0.001	ma/l		28-SEP-05	CLL	R329421
Thallium (TI)	<0.0001		0.0001	ma/L		28-SEP-05	CLL	R329421
Uranium (U)	0.0005		0.0001	mg/L		28-SEP-05	CLL	R329421
Vanadium (V)	0.010		0.001	mg/L		28-SEP-05	CLL	R329421
Zinc (Zn)	0.010		0.004	mg/L		28-SEP-05	CLL	R329421
Total Major Metals								
Calcium (Ca)	33.4		0.5	mg/L		28-SEP-05	HAS	R329419
Potassium (K)	2.0		0.1	mg/L		28-SEP-05	HAS	R329419
Magnesium (Mg)	9.3		0.1	mg/L		28-SEP-05	HAS	R329419
Sodium (Na)	7		1	mg/L		28-SEP-05	HAS	R329419
Iron (Fe)	2.98		0.005	mg/L		28-SEP-05	HAS	R329419
Manganese (Mn)	0.055		0.001	mg/L		28-SEP-05	HAS	R329419
Phosphorus, Total	0.081		0.001	mg/L		29-SEP-05	SHC	R330407
Ammonia-N	0.028		0.005	mg/L		28-SEP-05	TL	R329165
Total Organic Carbon	20		1	mg/L		29-SEP-05	ZOW	R329822
Routine Water Analysis - Low Level								
Chloride (CI)	3		1	mg/L		27-SEP-05	WYA	R328887
Nitrate+Nitrite-N	<0.006		0.006	mg/L		26-SEP-05	SHC	R328519
Nitrate-N	<0.006		0.006	mg/L		26-SEP-05	SHC	R328519
Nitrite-N	0.002		0.002	mg/L		26-SEP-05	SHC	R328519
Sulphate (SO4)	18.3		0.05	mg/L		27-SEP-05	JWU	R328301
pH, Conductivity and Total Alkalinity								
рН	8.2		0.1	pН		27-SEP-05	PTT	R328648
Conductivity (EC)	243		0.2	uS/cm		27-SEP-05	PTT	R328648
Bicarbonate (HCO3)	121		5	mg/L		27-SEP-05	PTT	R328648
Carbonate (CO3)	<5		5	mg/L		27-SEP-05	PTT	R328648
Hydroxide (OH)	<5		5	mg/L		27-SEP-05	PTT	R328648
Alkalinity, Total (as CaCO3)	99		5	mg/L		27-SEP-05	PTT	R328648
Ion Balance Calculation	105			0/		29 550 05		
TDS (Calculated)	100			70 ma/l		20-3EF-03		
Hardness (as CaCO3)	120			ma/l		28-SEP-05		
ICP metals for routine water				g/ L				

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Extracted	Analyzed	Ву	Batch
L322418-6 BUFFALO RIVER - DUP STATION 3 Sample Date: 23-SEP-05 Matrix: WATER Routine Water Analysis - Low Level ICP metals for routine water Calcium (Ca) Potassium (K) Magnesium (Mg)	31.5 0.9 8.6		0.5 0.1 0.1	mg/L mg/L mg/L		27-SEP-05 27-SEP-05 27-SEP-05	AHY AHY AHY	R328721 R328721 R328721 R328721
Sodium (Na)	6		1	mg/L		27-SEP-05	AHY	R328721
Refer to Referenced Information for Quali	fiers (if any) and Metho	dology.						

Reference Information

Sample Parameter Qualifier key listed:

Qualifier Desc	cription							
RAMB Resu	ult Adjusted For N	Aethod Blank						
Methods Listed (if a	pplicable):							
ETL Test Code	Matrix	Test Description	Preparation Method Reference(Based On)	Analytical Method Reference(Based On)				
C-TOT-ORG-ED	Water	Total Organic Carbon		APHA 5310 B-Instrumental				
CL-ED	Water	Chloride (CI)		APHA 4500 CI E-Colorimetry				
ETL-ROUTINE-LOW-	ED Water	ICP metals for routine water		APHA 3120 B-ICP/OES				
IONBALANCE-ED	Water	Ion Balance Calculation		APHA 1030E				
MET1-DIS-CCME-ED	Water	Dissolved Trace Metals		EPA 6020				
MET1-TOT-CCME-ED	Water	Total Trace Metals	EPA3015	EPA 6020				
MET2-DIS-ED	Water	Dissolved Major Metals		EPA 200.7				
MET2-TOT-LOW-ED	Water	Total Major Metals	EPA3015	EPA 200.7				
N2N3-LOW-ED	Water	Nitrate+Nitrite-N		APHA 4500 NO3E-Colorimetry				
NH4-LOW-ED	Water	Ammonia-N		APHA 4500 NH3F-Colorimetry				
NO2-LOW-ED	Water	Nitrite-N		APHA 4500 NO2B-Colorimetry				
NO3-LOW-ED	Water	Nitrate-N		APHA 4500 NO3H-Colorimetry				
P-TOTAL-LOW-ED	Water	Phosphorus, Total		APHA 4500 P B,E-Auto-Colorimetry				
PH/EC/ALK-ED	Water	pH, Conductivity and Total Alkalinity		APHA 4500-H, 2510, 2320				
SO4-LOW-ED	Water	Sulfate (SO4)		APHA 4110 B-Ion Chromatography				
** Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies.								

Chain of Custody numbers:

211480

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
ED	Enviro-Test Laboratories - Edmonton, Alberta, Canada		

Reference Information

GLOSSARY OF REPORT TERMS

Surr - A surrogate is an organic compound that is similar to the target analyte(s) in chemical composition and behavior but not normally detected in environmental samples. Prior to sample processing, samples are fortified with one or more surrogate compounds. The reported surrogate recovery value provides a measure of method efficiency. The Laboratory warning units are determined under column heading D.L.

mg/kg (units) - unit of concentration based on mass, parts per million

mg/L (units) - unit of concentration based on volume, parts per million

< - Less than

D.L. - Detection Limit

N/A - Result not available. Refer to qualifier code and definition for explanation

Test results reported relate only to the samples as received by the laboratory. UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION. UNLESS OTHERWISE STATED, SAMPLES ARE NOT CORRECTED FOR CLIENT FIELD BLANKS. Although test results are generated under strict QA/QC protocols, any unsigned test reports, faxes, or emails are considered preliminary.

Enviro-Test Laboratories has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by checks and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus cannot be guaranteed, Enviro-Test Laboratories assumes no liability for the use or interpretation of the results.

APPENDIX

APPENDIX B STREAM ASSESSMENT DATA COLLECTED DURING FALL 2005 SURVEY



Appendix B. Stream Assessment Data Collected During Fall 2005 Survey

Site	TCS1	TCS2	TCS3	TCS4	TCS5	TCS6	TCS7	TCS8	TCS9	BRS1	BRS2	BRS3	BRS4	BRS5	BRS6
Stream Name	Twin Creek	Twin Creek	Twin Creek	Twin Creek	Twin Creek	Twin Creek	Twin Creek	Twin Creek	Twin Creek	Buffalo River	Buffalo River	Buffalo River	Buffalo River	Buffalo River	Buffalo River
Access	ATV	ATV	ATV	HIKE	HIKE	HIKE	HIKE	HIKE	BOAT	ATV	ATV	ATV/ HIKE	ATV	ATV	BOAT
Location/ Notes	At highway	Upstream of	Upstream of	Downstream	Downstream	Downstream	Downstream	Downstream	River mouth a	t Upstream of	Furthest point	Long flood	Larger banks	Sulpour odour	River mouth at
	crossing with	highway	highway	of highway	of highway	of highway	of highway	of highway	Great Slave	highway	acessed	plain on east	noted	deposit on	Great Slave
	clear span	crossing	crossing	crossing	crossing fish	crossing	crossing	crossing	Lake Wetland	crossing with	downstream	side steep	upstream and	shoreline	Lake
	bridge	crocorrig	furthest point	furthest point	obstacle just	orocomig	crocomig	crocoing	unable to	clear span	aonnotroann	cliff with	downstream	Three moose	Lano
	bridge		assassad	assessed	downstream				access due to	bridge		erosional	Freshwater	observed	
			unstream	downstream	downouroum				shallow water	. Shage		issues on west	clam shell	00001100	
			apotroam	downouroann					onanow water			side	noted on bank		
												3100	noted on ban	N N	
Coordinates (NAD 83)	N 60 43'56.8	N 60 43'43.7	N 60 43'39.5	N 60 44'43.7	N 60 44'37.7	N 60 44'20.5	N 60 44'13.6	N 60 44'02.1	N 60 51'04.1	N 60 42'52.5	N 60 49'12.3	N 60 46'59.7	N 60 46'09.7	N 60 45'25.6	N 60 52'50.6
		W 115 1105 1	W 115 1110 0	W 115 1110 7	W 115 1100 F	W/ 44E 44/04 4	W 11E 11'DE 6	W 445 44144 0	W 115 1400 G	W 111 E400 1	W/ 11 / E7'00 0	W/ 114 EC/2C 0	VV 114	W 115 00'45 6	
Darah Na	W 115 11 15.4	VV 115 1125.1	VV 115 1140.9	W 115 11 12.7	VV 115 1102.5	W 115 11 31.1	W 115 1125.0	VV 115 11 11.d	5 10 115 14 09.0	0 VV 114 54 20.1	VV 114 57 32.2	VV 114 30 30.9	56 59.5	VV 115 02 45.0	VV 114 00 04.0
Reach No.															
Length Surveyed (m)	0/01/0005	0/21/2005	0/21/2005	0/21/2005	0/21/2005	0/21/2005	0/21/2005	0/21/2005	0/22/2005	0/20/2005	0/20/2005	0/20/2005	0/20/2005	0/20/2005	0/22/2005
Dale	9/21/2005	9/21/2005	9/21/2005	9/21/2005	9/21/2005	9/21/2005	9/21/2005	9/21/2005	9/22/2005	9/20/2005	9/20/2005	9/20/2005	9/20/2005	9/20/2005	9/22/2005
Crow	9.30	10.20		14.00	15.00	15.30	10.30	17.00	TA/TU	9.00	13.00	15.00	10.30	10.00	TA/TU
Crew	12.00	1A/10	1A/10	1A/10 25.00	TA/TU	TA/TU	1A/10	1A/10	TA/TU	TA/TU 75.00	TA/TU 70.00	1A/10	1A/10	TA/TU	1A/10 204.00
Average Channel Width (m)	12.00	4.50	33.00	25.00	50.00	50.00	3.00	15.00		75.00	70.00	150.00	200.00	50.00	204.00
Average Welleu Width (m)	10.00	2.50	29.00	20.00	45.00	44.00	2.00	12.00		00.00	50.00	40.00	00.00	30.00	200.00
Average Maximum Riffle Depth (Cm	75.00	37.00	0.00	0.00	0.00	0.00	20.00	70.00							
Average Gradiont (%)	15.00	0.00	50.00	00.00	100.00	100.00	50.00	0.00	4	4	4	4	4	4	4
	100	1	100	100	100	100	1 00	1	1	1	1	1	1	1	1
	100	0	100	100	100	100	20	0		0	0	0	0	0	0
	0	50	0	0	0	0	00	100		20	10	0	0	U E0	100
Rull (%)	0	50	0	0	0	0	0	100		00	90	70 20 (Danial)	90 40 (Danid)	00 50 (Daraid)	100
Other (%)	0	0	0	0	0	0	0	0		0	0	30 (Rapid)	10 (Rapid)	50 (Rapid)	0
	10	0	30	0	0	0	0	0		0	0	0	0	0	0
Debris - Area (%)	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Debris - Stable (%)	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Dara Darl (%)	100	100	50	50	70	60	100	50		5	0	2	2	0	50
	100	0	90	100	45	30	5	5		0	0	0	0	0	100
LOD (%)	0	30	0	0	5	5	0	0		50	0	0	100	0	0
Boulder (%)	40	10	10	10	10	10	60 5	00		50	0	100	100	0	0
	100	60	10	10	40	40	5	20		0	0	0	0	0	0
Cuthank (%)	0	40	0	0	0	20	0	0		0	0	0	0	0	0
Crown Closure (%)	0	0	0	0	0	0	20	20	0	0	0	0	0	0	0
Aspect (%)	NIW/	N	N	N	NIW/	NIW/	W	NE	NW/	NW	W	N	NW	NW	NW/
Velocity (m/s)	0.010	1 000	0 100	0.200	0.000	0.000	1,000				1 500	1 500	1 500	3 000	0.200
Bed Material	0.010	1.000	0.100	0.200	0.000	0.000	1.000			1	1.000	1.000	1.000	0.000	0.200
Fines (%)	80	10	50	20	100	50	0	30		70	20	30	10	30	0
Small Gravels (%)	20	20	10	10	0	10	0	10		30	60	60	80	70	0
Large Gravels (%)	0	10	10	10	0	10	0	10		10	10	10	10	0	0
Small Cobbles (%)	0	50	30	10	0	10	0	30		0	10	0	0	0	100
Large Cobbles (%)	0	10	0	50	0	20	10	20		0	0	0	0	0	0
Boulders (%)	0	0	0	0	0	0	90	0		0	0	0	0	0	0
Bedrock (%)	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
D90 (cm)	-	-	-	-	-	-	-	-	1	1 -	-	-	-	-	-
Compaction	L	н	М	Н	L	L	Н	н	1	М	М	М	М	н	Н
Banks		1	1			-	1	1	1				1	1	
Height (m)	1	1	0.5	2	1.5	1.5	3	2		12	6	20	3	4	2
Unstable (%)	0	0	0	0	0	0	33	0		25	0	15	0	38	0
Texture	F (vegegated)	F (vegegated)	F (vegegated)	F (vegegated)	F (vegegated)	F (vegegated)	F and G	F (vegegated))	F and G	F and G	F and G	F and G	F and G	F and G
Confinement	UC	UC	UC	UC	UC	UC	CO	UC	UC	FC	FC	FC	OC	OC	G
Vallev:Channel Ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stage	М	Н	М	М	М	М	М	М	М	Н	Н	Н	Н	М	М
Flood Signs Height (m)	1	1	0.5	2	2	1	1	0		2.5	2.5	3	1	1.5	1
Braided (Y/N)	N	N	Y	Y	Y	Y	N	Y		N	N	N	N	N	Y
Bars (%)	0	0						1		1	İ			l l	
Water Quality		-						1						1	
pH	7.89	7.4	7.13	8.12	8.03	8.25	7.88	7.99	8.07	8.57	8.4	7.92	8.21	7.01	8.01
O ₂ (%)	46.5	86	77.3	86.4	66.5	67 1	77	89.6	93	88.8	91.5	89.9	96.1	95.3	84.1
$O_{-}(mq/l)$	5.76	10.90	0.74	10.4	8 02	7.57	0.10	10.97	10.67	10.27	10.44	10.27	10.01	10.96	0.02
Average Water Tamp (00)	5.70	10.09	5.14	7.2	0.02	1.51	9.19	7.0	10.07	10.27	10.44	10.27	10.91	10.00	9.02
Turbidity (cm)	0.4	0.4 bottom	J.D bottom	1.3 bottom	1.4 bottom	J.J bottom	(.1 bottom	(.2 bottom	9.4	9.4 1E	3.0 10	10	3.9	9.0	0.0
Salinity (ont)	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	10	0.1	0.1	0.1	9	0 1
Conductivity (uS)	418	409.8	408.1	428.5	430	423.4	420.5	420.2	266.9	208.2	241.1	222.7	245.5	233.2	252.8
	-10	-00.0		120.0		720.7	-20.0	120.2	200.0	200.2			2-70.0	200.2	202.0

Notes:

 Large Organic Debris - Pieces of wood >20cm in diameter and >2m in length
 Texture - Fines, Gravels, Larges (=cobbles, boulders)

 D90 - Intermediate diameter of the substrate particle that is larger than 90% of substrate particles a Confinement: UC - Unconfined, FC - Frequently Confined

 Compaction - Embeddedness of substrate particles (Low, Moderate, High)
 Stage - Flow stage (Low, Moderate, High, Flood)