FINAL

STREAMSIDE INVESTIGATION TECHNICAL MEMORANDUM

CARPENTER-SNOW CREEK MINING DISTRICT NPL SITE SUPPLEMENTAL STUDIES FOR THE REMEDIAL INVESTIGATION CASCADE COUNTY, MONTANA

March 2013

Prepared for:

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Remediation Division
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ACRONYMS AND ABBREVIATIONS

bgs	below ground surface
CLP	Contract Laboratory Program
CSCMD	Carpenter-Snow Creek Mining District
DEQ	Montana Department of Environmental Quality
EPA	U.S. Environmental Protection Agency
GPS	Global positioning system
mg/kg	Milligrams per kilogram
NPL	National Priorities List
RI	Remedial investigation
ROD	Record of Decision
Tetra Tech	Tetra Tech, Inc.
USFS	U. S. Forest Service
XRF	X-ray fluorescence

1.0 INTRODUCTION

The Montana Department of Environmental Quality (DEQ), in cooperation with the U.S. Environmental Protection Agency (EPA) and the U.S. Forest Service (USFS), tasked Tetra Tech EM Inc. (Tetra Tech) to complete a supplemental remedial investigation (RI) at the Carpenter-Snow Creek Mining District (CSCMD) National Priorities List (NPL) site. The CSCMD site is in Cascade County, and occupies an area starting from approximately 4 miles northeast of Neihart, Montana, southwest through town and ending just southwest of Neihart. Mine tailings, waste rock, and acid mine drainage are present throughout the site. Previous investigations showed that streamside soils contain elevated concentrations of arsenic, cadmium, copper, lead, and zinc and they may pose a risk to ecological receptors and to human recreational and residential users.

In 2011 Tetra Tech investigated the streamside soils for mine waste along Carpenter Creek, Snow Creek and Belt Creek from the confluence of Carpenter Creek to the USFS Belt Creek Ranger Station. From that investigation, Tetra Tech estimated the volume of tailings in Upper Carpenter Creek and confirmed the presence of mine waste along Lower Carpenter Creek, Snow Creek and Belt Creek. In 2012 Tetra Tech was tasked to investigate the extent of surficial mine waste along Lower Carpenter Creek, Mackay Creek, Haystack Creek, Snow Creek and Belt Creek. The streamside investigation areas for Lower Carpenter Creek, Mackay Creek, Haystack Creek and Snow Creek are shown on Figure 1. The streamside investigation area for Belt Creek is shown on Figure 2.

Tetra Tech prepared this technical memorandum for the DEQ under Contract Number 407026, Task Order 100, to summarize the 2012 streamside investigation. The remainder of this document contains:

- The site history for the drainages inspected in this investigation
- The methods used for gathering data in each drainage
- The analytical results of metals in streamside soils.

2.0 SITE HISTORY

The Neihart Mining District was a major silver producer in the state and the primary producer in Cascade County, producing about $16 million in silver between 1882 and 1929 (Sahinen 1935; GCM 1991). The first claim in the district was filed in July 1881. Development slowed during the mid- to late 1880s, then began to increase again after construction of the Great Falls smelter and the Belt Mountain branch of the Great Northern Railroad in 1891 that connected Neihart to Great Falls.

In 1921, the Silver Dyke Mine began operations. One million tons of ore were blocked out and a 500-ton flotation mill was constructed on the site. The Silver Dyke operated at capacity throughout the decade. In 1926, the capacity of the mill at the Silver Dyke was increased to 950 tons. Because of the type of deposits at the mine, work was by open pit methods so a glory hole was dug on the site. The Silver Dyke operated until 1929, when the blocked-out ore was depleted and no new deposits could be found. During its operation, the Silver Dyke was the largest producer of ore in the Neihart mining district, and its silver production was second only to Silver Bow County (Schafer 1935).

A 1925 earthquake damaged the tailings dam next to the Silver Dyke Mill causing a flood of tailings into the valley below. These tailings are known as the Silver Dyke Tailings. The tailings were deposited below the mill along Carpenter Creek. The 2011 streamside investigation found mine waste contamination in soils along lower Carpenter Creek and Belt Creek from the confluence of Carpenter Creek to the USFS Belt Creek Ranger Station. In 2012 Tetra Tech investigated the surficial extent of metals contamination in soils along lower Carpenter Creek, Mackay Creek, Haystack Creek, and Belt Creek from the confluence of Carpenter Creek to the town of Monarch.

Another area of streamside tailings investigation was Snow Creek. The 2011 streamside investigation confirmed the presence of mine waste in soils along Snow Creek and its tributaries. In 2012 Tetra Tech investigated the surficial extent of mine waste along Snow Creek and its tributaries.

The final areas of interest for the streamside tailings investigation were minor drainages along the Neihart Slope. The Neihart Slope encompasses the eastern hillside directly above the town of Neihart. In 2011 three drainages were visually inspected for mine waste: Rock Creek, Compromise Gulch, and Broadwater Gulch. In 2012 Tetra Tech investigated the surficial extent of mine waste along the streams in each of these areas.

3.0 METHODS

The following sections describe the methods used to assess metals concentrations in the streamside soils at the site and discuss the analytical results. All samples were collected and analyzed in accordance with the Sampling and Analysis Plan for the CSC Mining District NPL Site except as described in Section 3.3 (Tetra Tech 2012).

3.1 SOIL SAMPLING

The horizontal extent of contamination was characterized through collection of surface soil samples and analysis with X-Ray Fluorescence (XRF). Starting at the stream bank, in situ XRF measurements were used to identify where there were lead concentrations in soil greater than 400 milligrams per kilogram (mg/kg) or 900 mg/kg for zinc per the 2012 Sampling and Analysis Plan (Tetra Tech, 2012). In locations where these concentrations were exceeded, an additional sample was collected at a distance farther away from the stream. This was repeated until XRF data showed lead and zinc levels below 400 mg/kg and 900 mg/kg respectively. The in situ XRF sample results are in Table 1. Figures 3 through 8B-3 show the in situ sampling locations in their respective areas. Figure numbers that include the letter A show lead sampling results. Figure numbers that include the letter B indicate zinc sampling results.

Ex situ soil samples were collected from 25 percent of the in situ surface soil sample locations. Soil samples were collected from locations that documented both the presence and absence of lead concentrations greater than 400 mg/kg and zinc concentrations greater than 900 mg/kg. The in situ and ex situ samples were collected from 0 to 2 inches below ground surface (bgs) with a shovel or trowel and screened with a #10 mesh screen before being placed in a sample container. Off-site the ex situ samples were sieved with a #60 mesh screen and analyzed again using XRF. Ex situ XRF analytical results are in Table 2. Raw in situ and ex situ XRF analytical results are in Appendix A.

Ten percent of the ex situ samples were packaged and sent to an EPA Contract Laboratory Program (CLP) laboratory where they were analyzed for metals using EPA Method CLP SOW ISM01.3. The CLP sample analytical results are in Table 3. The raw CLP analytical results are in Appendix B.

3.2 TEST PITS

Tetra Tech dug 16 test pits: three along Snow Creek, four in lower Carpenter Creek, and nine along Belt Creek. The locations are shown on Figure 3. Test pit sampling locations were limited due to steep and rugged terrain and trees near the creeks. The locations were limited to public land (USFS) and mining claims in Snow Creek and lower Carpenter Creek that granted access permission. At EPA's request, no test pits were dug on private properties along Belt Creek. The test pit logs are in Appendix C. The test pit sample results are in Table 4.

3.3 DEVIATIONS FROM THE SAP AND DATA GAPS

The deviations from the SAP were:

1. Only surface samples were collected during the streamside investigation. Subsurface samples from 6-12 inches bgs were not collected because the task was impractical given the logistics and timeframe for the streamside investigation.

2. Only 25 percent (as opposed to 30 percent stated in the SAP) of the in situ samples were collected and analyzed ex situ. After trial in the field, 30 percent was impractical given the timeframe for the investigation.

3. Samples that were deemed too wet to screen in the field were collected and dried offsite. They were then sieved using the appropriate screen.

4. McKay Gulch streamside soil samples were mistakenly labeled MGSS instead of MKSS.

Existing data gaps in the streamside sampling include:

1. Subsurface metals concentrations from 6-12 inches bgs for all streamside areas investigated in 2012.
2. Total depth of tailings deposits on public and private property along Belt Creek north of the USFS Ranger Station.
3. A detailed investigation for the surficial and vertical extent of tailings for all public and private streamside areas investigated in 2012.
4. The depth of streamside tailings deposits along McKay Creek and Haystack Creek.
5. Volume estimates of streamside soils for all public and private streamside areas investigated in 2012.

4.0 STREAMSIDE INVESTIGATIONS SUMMARIES

The following sections summarize the results of the investigations along Lower Carpenter Creek, Snow Creek, and Belt Creek.

4.1 LOWER CARPENTER CREEK STREAMSIDE INVESTIGATION

For this investigation, lower Carpenter Creek was defined as Carpenter Creek from the confluence of Snow Creek to the confluence of Belt Creek. Tetra Tech analyzed 261 in situ soil samples. The in situ sample results are part of Table 1. The sample locations and in situ XRF results for this area are shown on Figure 4A for lead and Figure 4B for zinc. Carpenter Creek samples are identified by the first four letters CCSS in the sample name. In general, the highest concentrations of metals were found in soils and tailings deposits adjacent to the creek. As the distance from the creek increased, the metals concentrations typically decreased.

Tetra Tech excavated four test pits in lower Carpenter Creek. Soil samples were collected from each test pit at the intervals shown in the test pit logs (Appendix C). Test pit locations were limited due to steep and rugged terrain near the creek. Test pit locations are shown on Figure 3. Analytical results for test pit soil samples are in Table 4.

4.3 MACKAY GULCH AND HAYSTACK CREEK

Soils along both MacKay Creek and Haystack Creek were analyzed for metals as part of the investigation. Tetra Tech analyzed 79 in situ soil samples along both creeks. The in situ sample results are part of Table 1. The sample locations and in situ XRF results for this area are shown on Figure 5A for lead and Figure 5B for zinc. Mackay Gulch and Haystack Creek samples are identified by the first four letters MGSS in the sample name.

No test pits were excavated along Mackay Gulch because the majority of the property is private.

4.3 SNOW CREEK

For this investigation the Snow Creek area was defined as Snow Creek and its three main tributaries to its confluence with Carpenter Creek. This investigation area is shown on Figure 1. Tetra Tech analyzed 332 in situ soil samples along Snow Creek. The in situ sample results are part of Table 1. The sample locations and in situ XRF results for this area are shown on Figure 6A for lead and Figure 6B for zinc. Snow Creek samples are identified by the first four letters SCSS in the sample name. In general, the highest concentrations of metals in Snow Creek were found in soils and tailings deposits along the tributaries that originate near the Big Seven Mine and the Lower Rebellion Mine. The metals concentrations typically decreased as the distance from the creeks increased.

Tetra Tech excavated three test pits along Snow Creek. Soil samples were collected from each test pit at the intervals shown in the test pit logs (Appendix C). Steep and rugged terrain near the creek and long distances between the access road and the creek made viable test pit locations very limited. Test pit locations for Snow Creek are shown on Figure 3. Analytical results for test pit soil samples are in Table 4.

4.4 NEIHART SLOPE

During this investigation Tetra Tech analyzed soil from three drainages on the Neihart Slope: Broadwater Gulch, Compromise Gulch, and Rock Creek. These investigation areas are shown on Figure 1. Tetra Tech analyzed 68 in situ soil samples on the Neihart Slope. The in situ sample results are part of Table 1. The sample locations and in situ XRF results for this area are shown on Figure 7A for lead and Figure 7B for zinc. Neihart Slope samples are identified by the first four letters NSSS in the sample name. In general, the lead and zinc concentrations in the majority of the samples on the Neihart Slope were above the field screening levels.

Tetra Tech did not excavate any test pits on the Neihart Slope because the areas that are not on private property were inaccessible with the backhoe.

4.5 BELT CREEK

Tetra Tech collected streamside investigation data along Belt Creek from the confluence of Carpenter Creek to the town of Monarch. This investigation area is shown on Figure 2. Tetra Tech analyzed 564 in situ soil samples along Belt Creek. The in situ sample analytical results for the five contaminants of potential concern are part of Table 1. Since the Belt Creek investigation area was so large it was split into three sub-areas: south (Figure 8-1), middle (Figure 8-2), and north (Figure 8-3) to show the sample locations and in situ XRF results for lead and zinc. As with the other figures, the letter A in the figure number indicates lead results and a B in the figure number indicates zinc results. Belt Creek samples are identified by the first four letters BCSS in the sample name.

In general, the highest concentrations of metals along Belt Creek were found in soils and tailings deposits in low lying areas along the creek that showed evidence of regular flooding. Generally, as distance from the creek and the elevation increased, the metals concentrations decreased.

Tetra Tech excavated nine test pits along Belt Creek. Soil samples were collected from each test pit at the intervals shown in the test pit logs (Appendix C). Steep and rugged terrain near the creek and long stretches of private property along the creek made viable test pit locations sparse. Test pit locations for Belt Creek are shown on Figure 3. Analytical results for test pit soil samples are in Table 4.

5.0 CONCLUSIONS

For this investigation, Tetra Tech investigated the general extent of surficial metals contamination in the soils along lower Carpenter Creek, Mackay Creek, Haystack Creek, Snow Creek, the Neihart Slope, and Belt Creek. Soil was analyzed for metals concentrations at 1,304 locations using in situ XRF. Concentrations exceeding the investigation screening levels of 400 mg/kg lead and 900 mg/kg zinc were documented along each creek. The areas with the highest observed concentrations of lead and zinc were lower Carpenter Creek, portions of Belt Creek, and the drainages on the Neihart Slope. The areas with the lowest observed lead and zinc concentrations were the north tributary of Snow Creek, lower Snow Creek, Haystack Creek, and Mackay Creek.

Further streamside soils investigation is planned for 2013 and will include Belt Creek, from a point south of the town of Neihart to the confluence of Carpenter Creek.

6.0 REFERENCES

GCM Services, Inc. 1991. Cultural Resource Inventory and Assessment of the Neihart Mining District. Prepared for L.C. Hanson Company. Butte.

Sahinen, Uuno M. 1935. “Mining Districts in Montana.” Thesis, Montana School of Mines, Butte.

Schafer, Paul A. 1935. “Geology and Ore Deposits of the Neihart Mining District, Cascade County, Montana.” Bureau of Mines and Geology Memoir No. 13. Montana School of Mines, Butte.

Tetra Tech. 2012. “Final Sampling and Analysis Plan for the Carpenter-Snow Creek Mining District NPL Site.” July.

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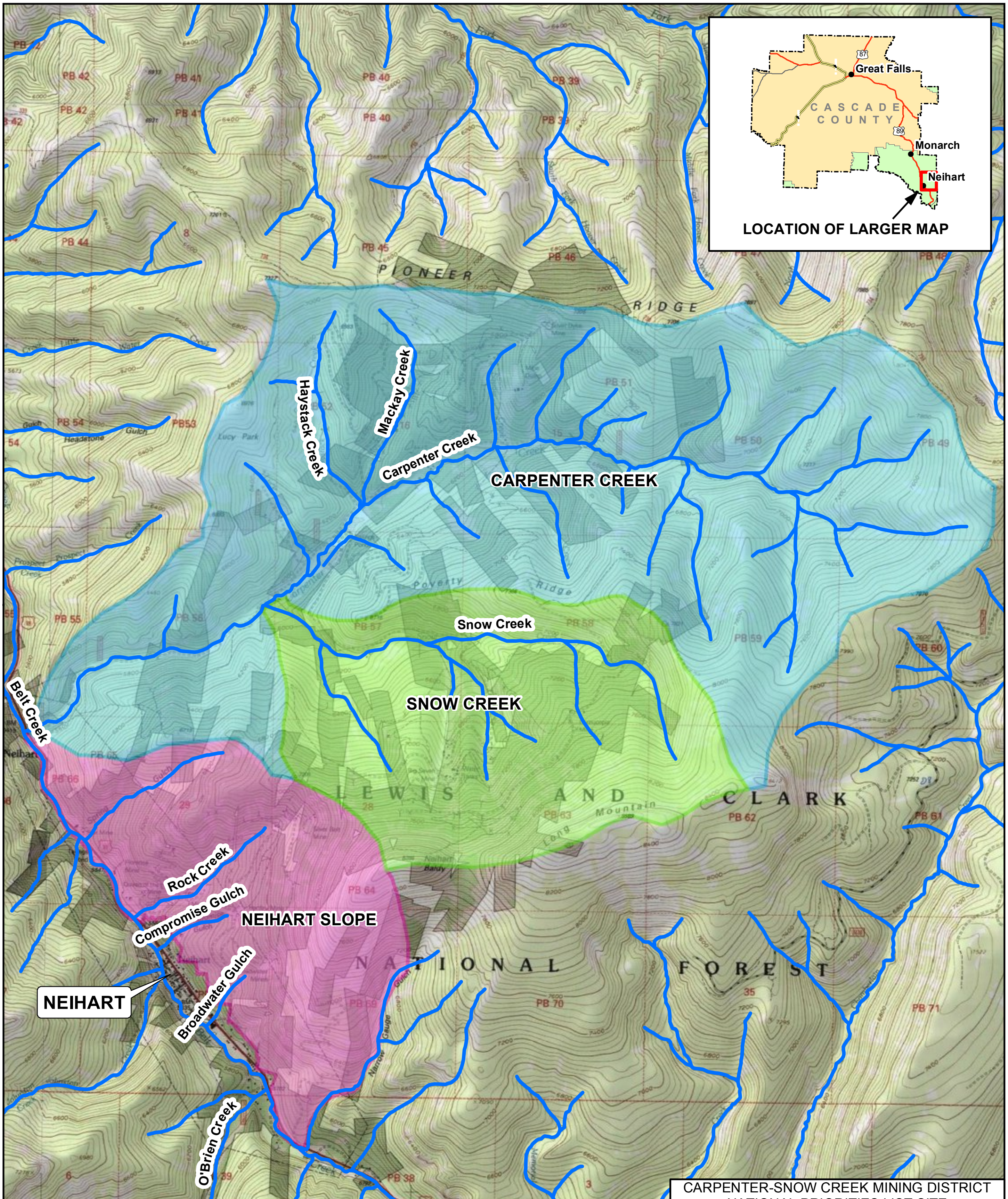
FIGURES



CARPENTER-SNOW CREEK MINING DISTRICT
NATIONAL PRIORITIES LIST SITE

TOPOGRAPHIC SOURCE: USGS (ESRI Server)

LEGEND

STREAM

N

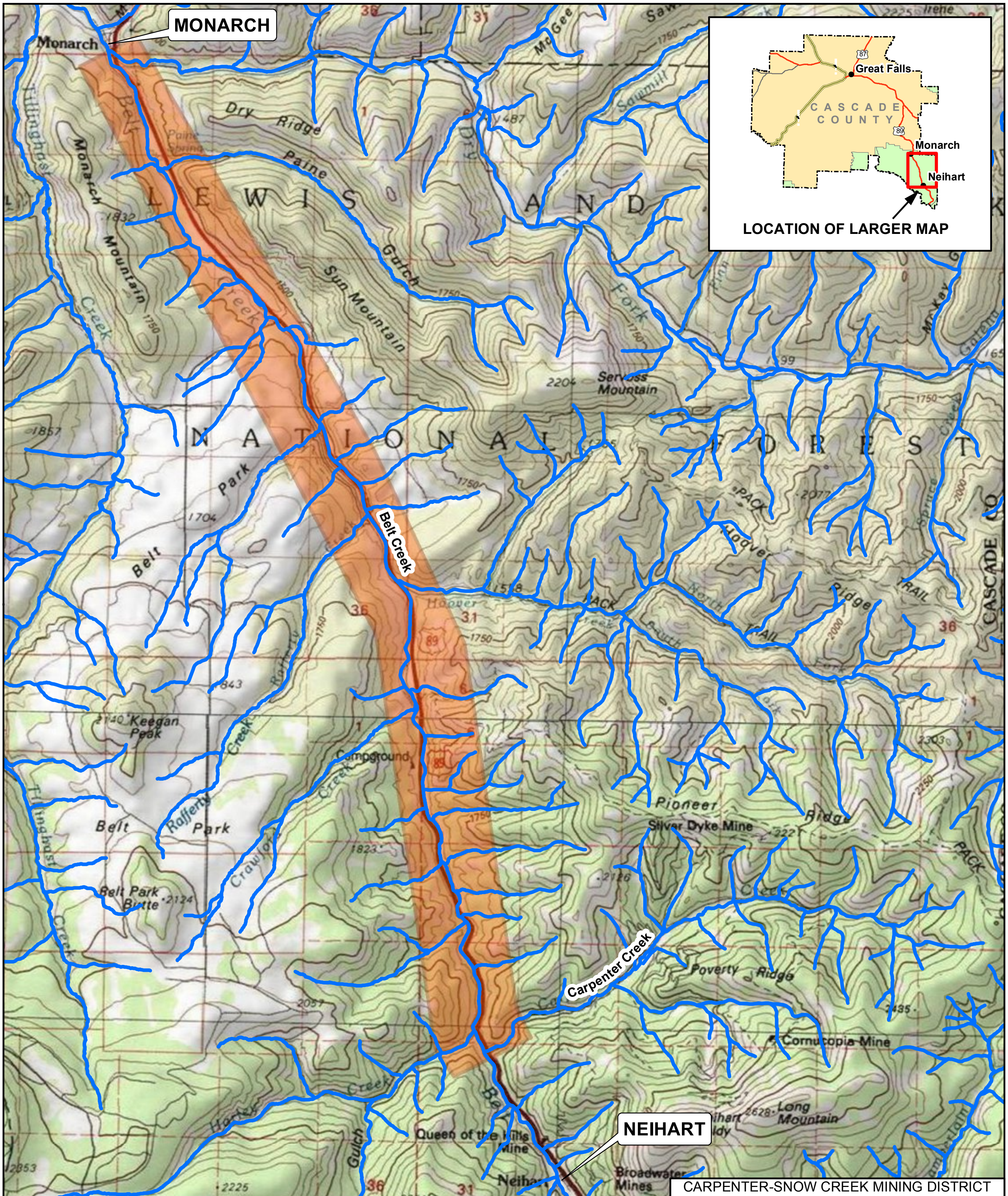
0 0.2 0.4 0.6 0.8 1 Miles

FIGURE 1

STREAMSIDE INVESTIGATION AREA MAP
CARPENTER SNOW CREEK NPL SITE

TETRA TECH EM INC.

GIS MAP BY DOUG HEROLD TTEMI-HELENA - Figure_1_Streamside_Investigation_Area_Map_CSC_012313.mxd



CARPENTER-SNOW CREEK MINING DISTRICT
NATIONAL PRIORITIES LIST SITE

TOPOGRAPHIC SOURCE: USGS (ESRI Server)

LEGEND

STREAM

STREAMSIDE INVESTIGATION AREA

N

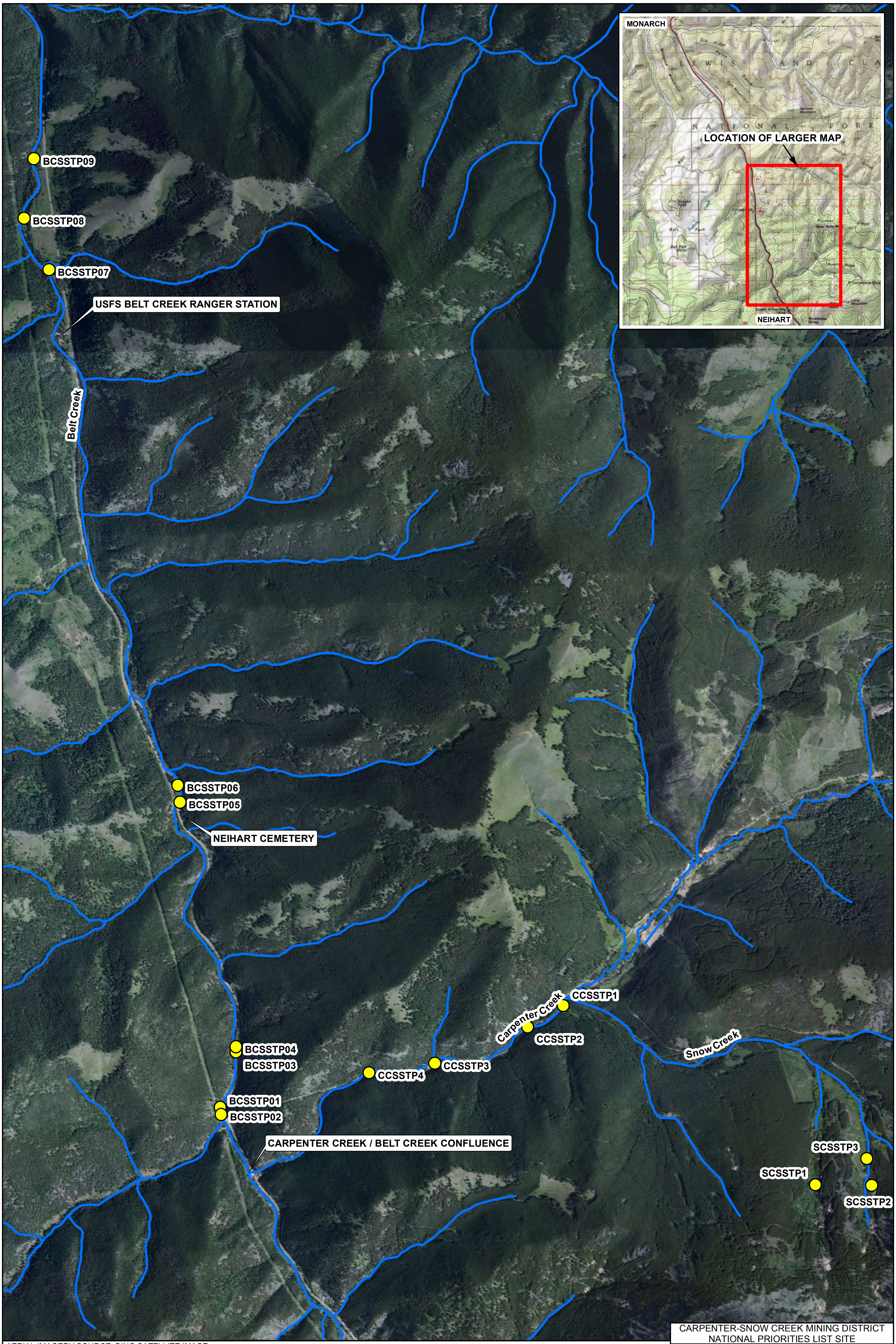
0 0.5 1 1.5 2 Miles

FIGURE 2

STREAMSIDE INVESTIGATION AREA MAP
BELT CREEK

TETRA TECH EM INC.

GIS MAP BY DOUG HEROLD TTEMI-HELENA - Figure_2_Streamside_Investigation_Area_Map_BC_012913.mxd



AERIAL IMAGERY SOURCE: BING SATELLITE IMAGE

LEGEND

- STREAM
- TEST PIT

N

0 1,000 2,000 3,000 Feet

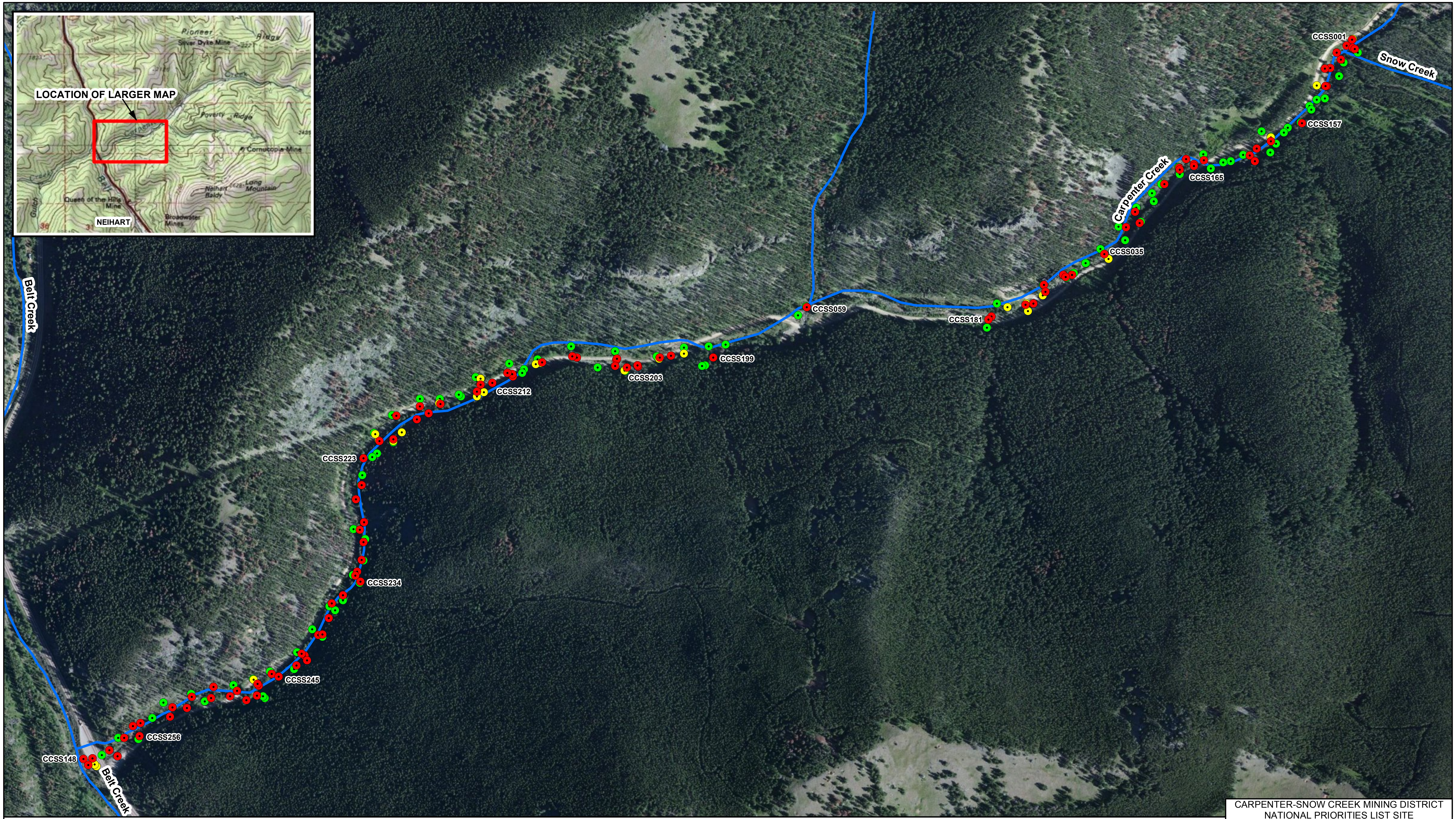
CARPENTER-SNOW CREEK MINING DISTRICT
NATIONAL PRIORITIES LIST SITE

FIGURE 3

TEST PIT LOCATIONS

TETRA TECH EM INC.

GIS MAP BY DOUG HEROLD TTEMI-HELENA - Figure_3_Test_Pit_Locations_012313.mxd



AERIAL IMAGERY SOURCE: BING SATELLITE IMAGE

LEGEND

STREAM

XRF Sample Result: Lead in Milligrams Per Kilogram (mg/kg)

- 0 - 600 mg/kg
- 600 - 1,200 mg/kg
- > 1,200 mg/kg

NOTE:
NOT ALL SAMPLE POINT NAME LABELS ARE SHOWN.
LABELS SHOWN ARE FOR REFERENCE PURPOSES ONLY.

N

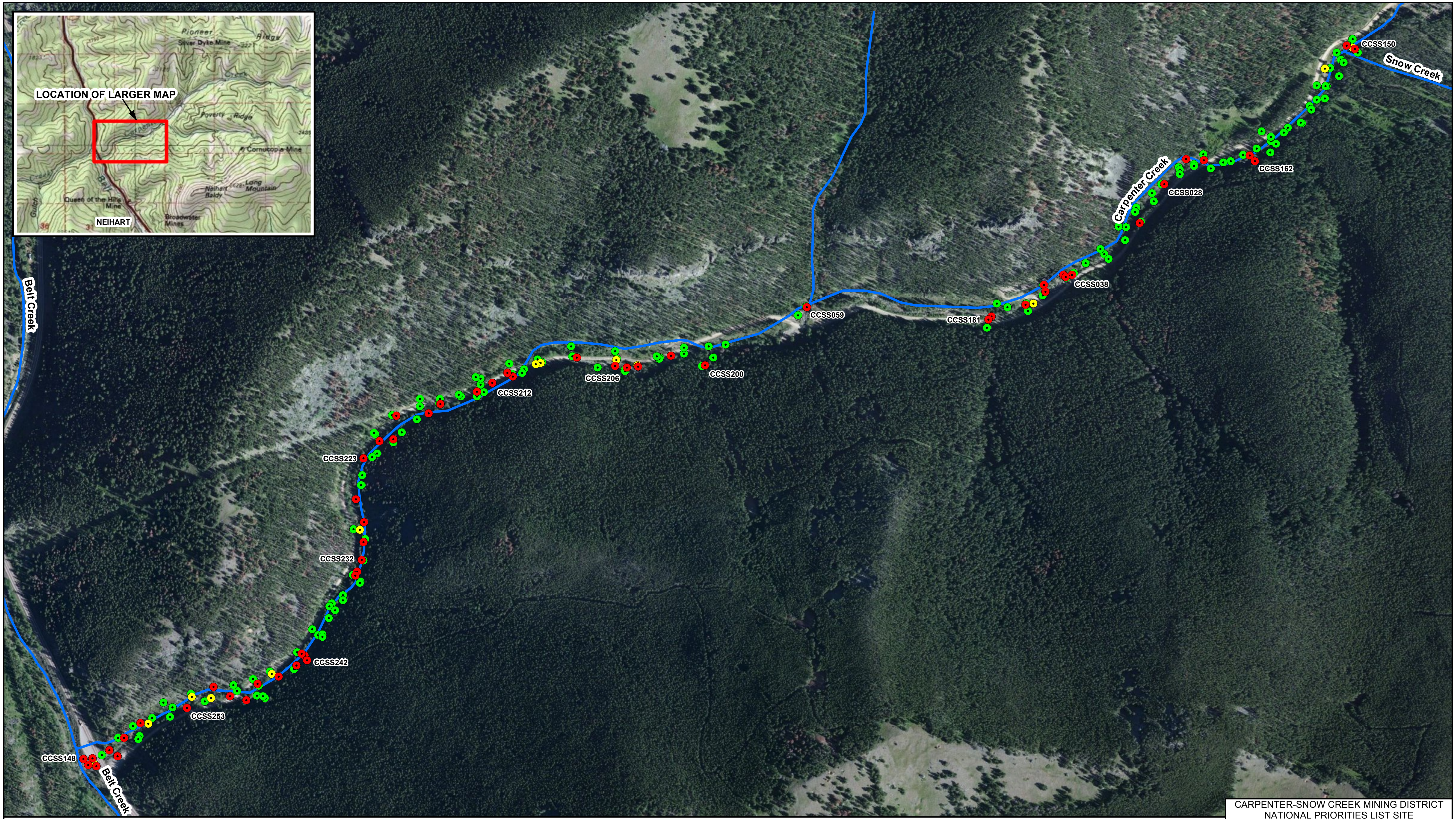
0 200 400 600 800 1,000
Feet

CARPENTER-SNOW CREEK MINING DISTRICT
NATIONAL PRIORITIES LIST SITE

FIGURE 4A
LOWER CARPENTER CREEK
IN SITU XRF STREAMSIDE SAMPLING
LEAD RESULTS

TETRA TECH EM INC.

GIS MAP BY DOUG HEROLD TTEMI-HELENA - Figure_4A_Streamside_Sampling_Lead_Lower_CC_012313.mxd



AERIAL IMAGERY SOURCE: BING SATELLITE IMAGE

LEGEND

STREAM

XRF Sample Result: Zinc in Milligrams Per Kilogram (mg/kg)

- 0 - 900 mg/kg
- 900 - 1,100 mg/kg
- > 1,100 mg/kg

NOTE:
NOT ALL SAMPLE POINT NAME LABELS ARE SHOWN.
LABELS SHOWN ARE FOR REFERENCE PURPOSES ONLY.

N

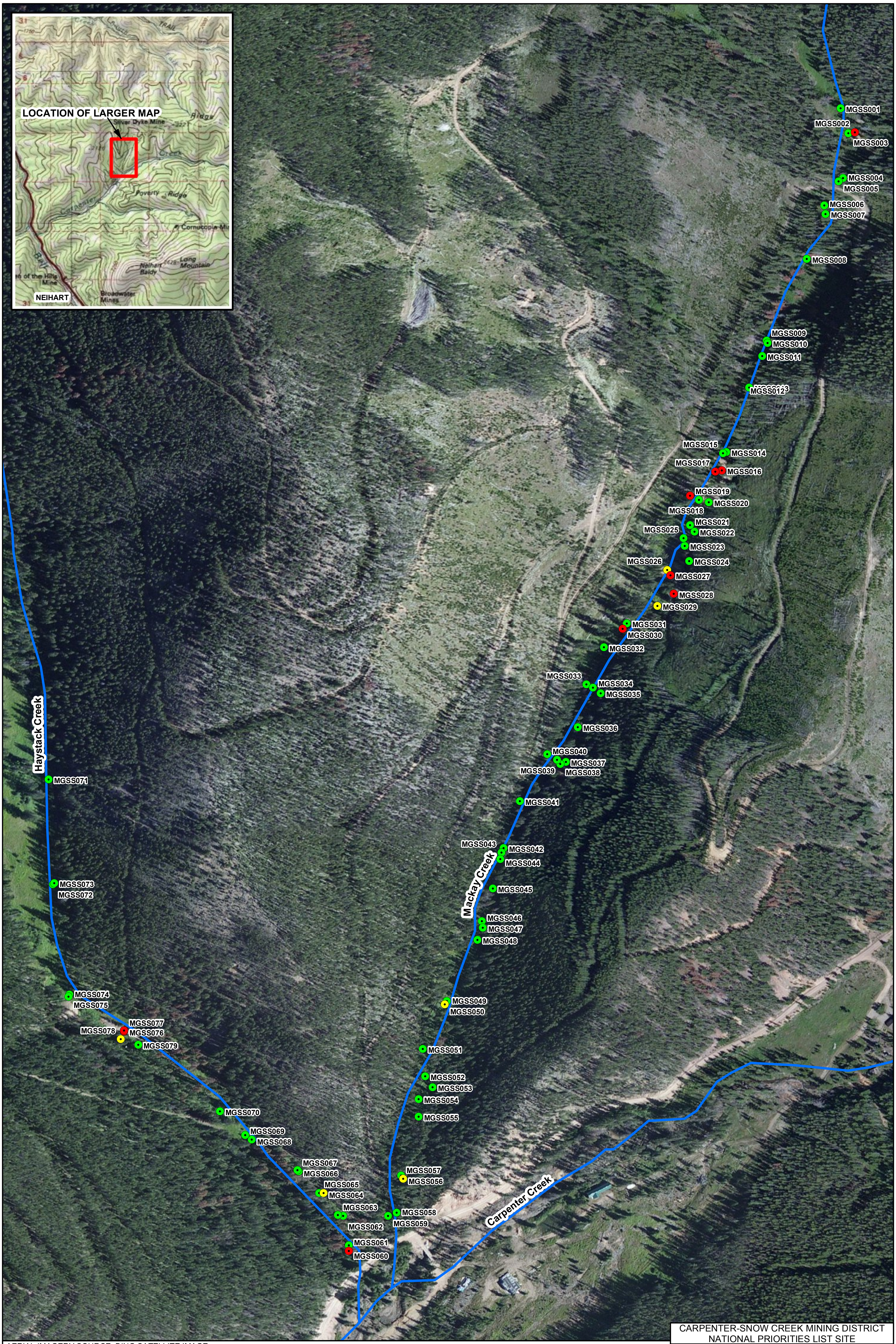
0 200 400 600 800 1,000 Feet

CARPENTER-SNOW CREEK MINING DISTRICT
NATIONAL PRIORITIES LIST SITE

FIGURE 4B
LOWER CARPENTER CREEK
IN SITU XRF STREAMSIDE SAMPLING
ZINC RESULTS

TETRA TECH EM INC.

GIS MAP BY DOUG HEROLD TTEMI-HELENA - Figure_4B_Streamside_Sampling_Zinc_Lower_CC_012413.mxd



CARPENTER-SNOW CREEK MINING DISTRICT
NATIONAL PRIORITIES LIST SITE

FIGURE 5A

MACKAY GULCH AND HAYSTACK CREEK
IN SITU XRF STREAMSIDE SAMPLING
LEAD RESULTS

AERIAL IMAGERY SOURCE: BING SATELLITE IMAGE

LEGEND

STREAM

XRF Sample Result: Lead in Milligrams Per Kilogram (mg/kg)

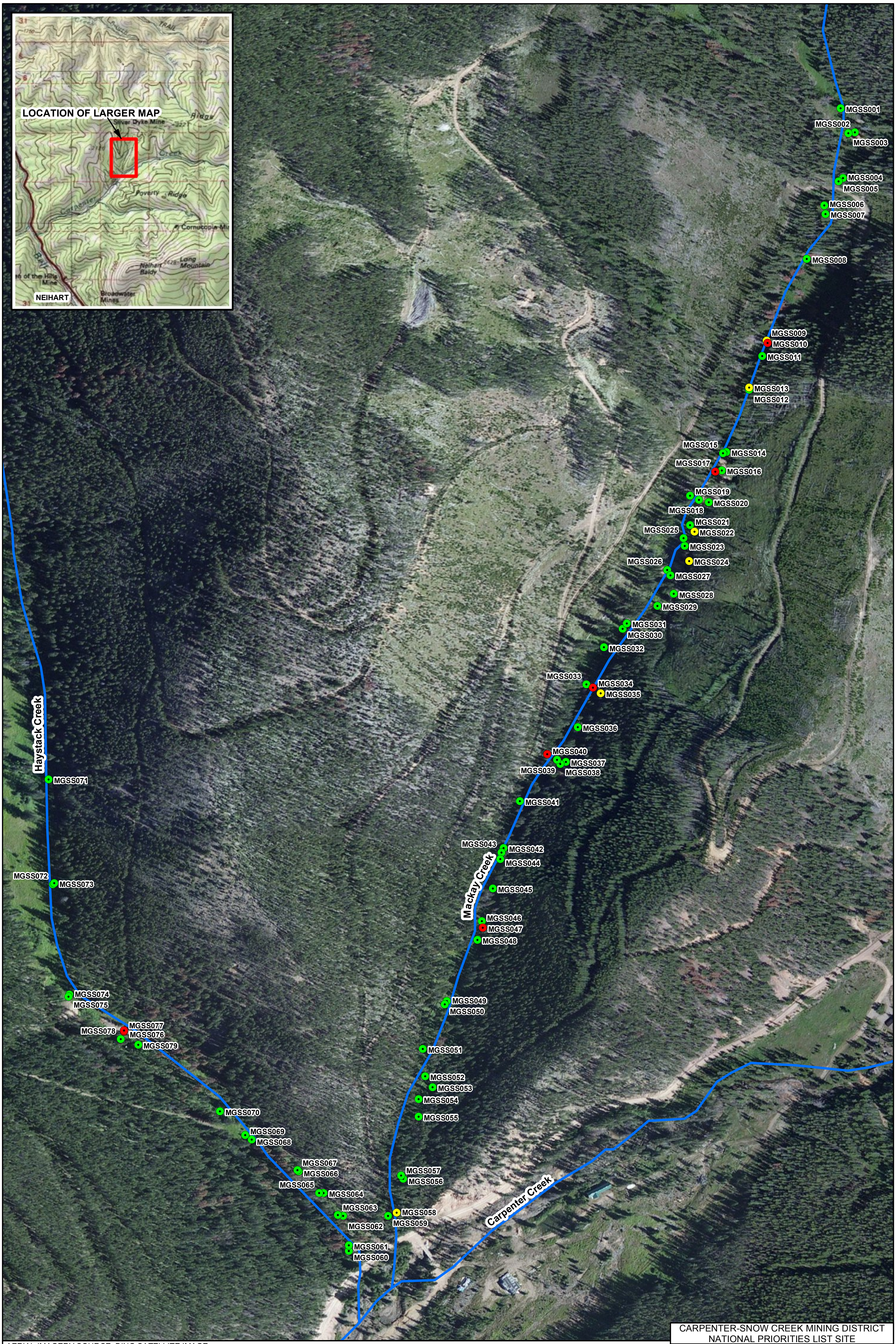
- 0 - 600 mg/kg
- 600 - 1,200 mg/kg
- > 1,200 mg/kg

N

0 100 200 300 400 Feet

TETRA TECH EM INC.

GIS MAP BY DOUG HEROLD TTEMI-HELENA - Figure_5A_Streamside_Sampling_Lead_Mackay_Haystack_012313.mxd



AERIAL IMAGERY SOURCE: BING SATELLITE IMAGE

LEGEND

STREAM

XRF Sample Result: Zinc in Milligrams Per Kilogram (mg/kg)

- 0 - 900 mg/kg
- 900 - 1,100 mg/kg
- > 1,100 mg/kg

N

0 100 200 300 400 Feet

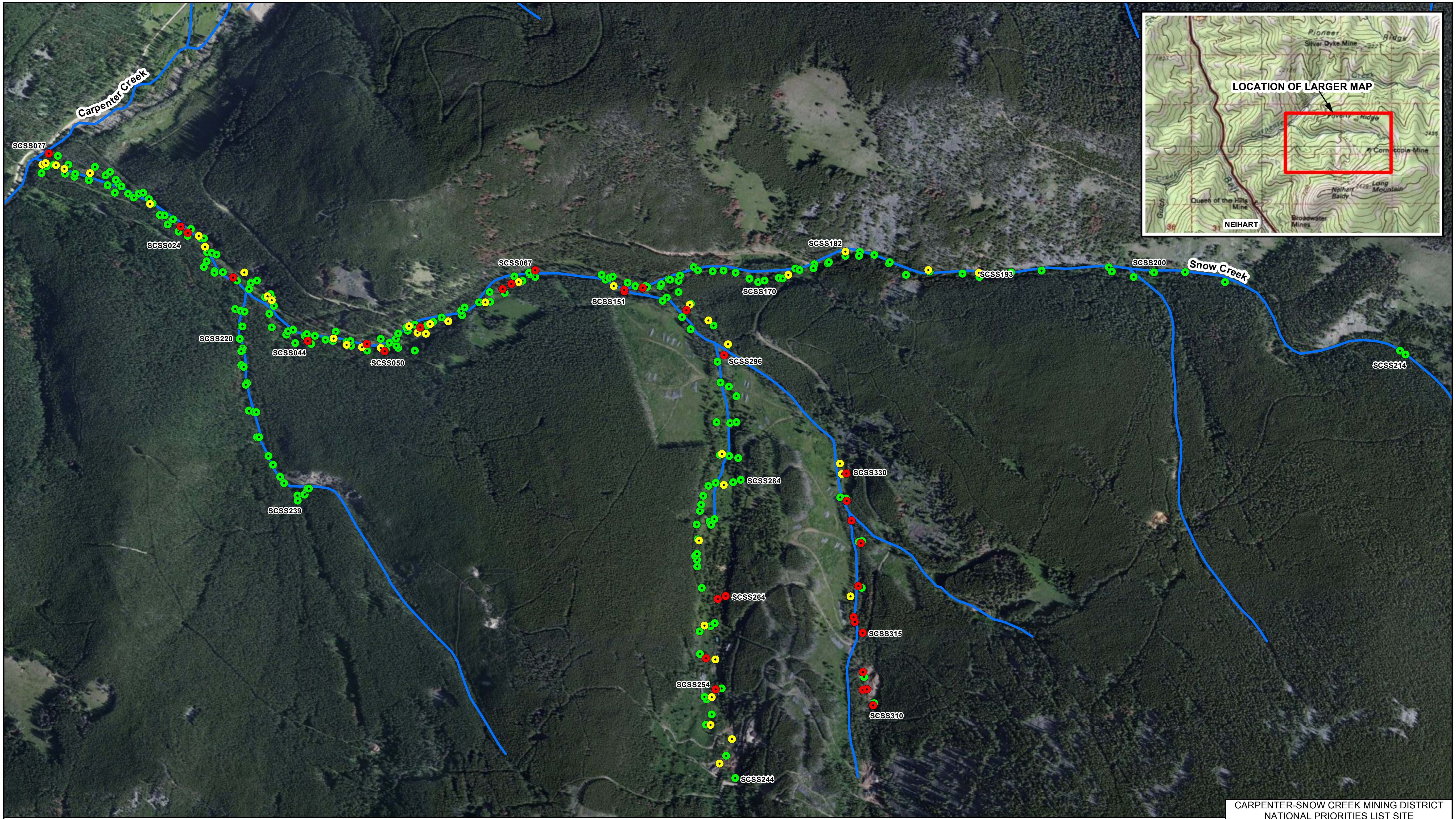
CARPENTER-SNOW CREEK MINING DISTRICT
NATIONAL PRIORITIES LIST SITE

FIGURE 5B

MACKAY GULCH AND HAYSTACK CREEK
IN SITU XRF STREAMSIDE SAMPLING
ZINC RESULTS

TETRA TECH EM INC.

GIS MAP BY DOUG HEROLD TTEMI-HELENA - Figure_5B_Streamside_Sampling_Zinc_Mackay_Haystack_012413.mxd



AERIAL IMAGERY SOURCE: BING SATELLITE IMAGE

LEGEND

STREAM

XRF Sample Result: Lead in Milligrams Per Kilogram (mg/kg)

- 0 - 600 mg/kg
- 600 - 1,200 mg/kg
- > 1,200 mg/kg

NOTE:
NOT ALL SAMPLE POINT NAME LABELS ARE SHOWN.
LABELS SHOWN ARE FOR REFERENCE PURPOSES ONLY.

N

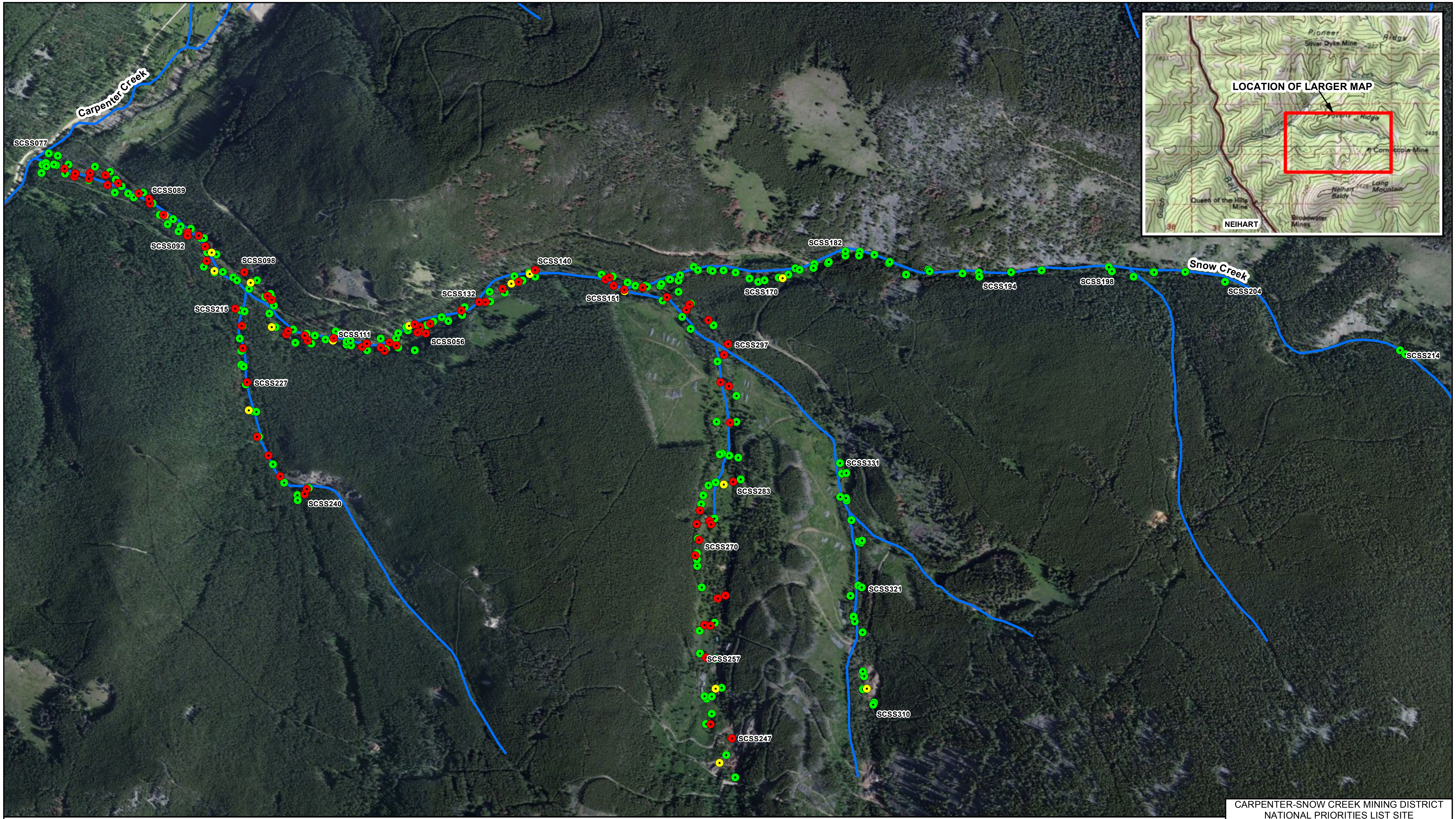
0 200 400 600 800 1,000
Feet

CARPENTER-SNOW CREEK MINING DISTRICT
NATIONAL PRIORITIES LIST SITE

FIGURE 6A
SNOW CREEK
IN SITU XRF STREAMSIDE SAMPLING
LEAD RESULTS

TETRA TECH EM INC.

GIS MAP BY DOUG HEROLD TTEMI-HELENA - Figure_6A_Streamside_Sampling_Lead_SC_012313.mxd



AERIAL IMAGERY SOURCE: BING SATELLITE IMAGE

LEGEND

STREAM

XRF Sample Result: Zinc in Milligrams Per Kilogram (mg/kg)

- 0 - 900 mg/kg
- 900 - 1,100 mg/kg
- > 1,100 mg/kg

NOTE:
NOT ALL SAMPLE POINT NAME LABELS ARE SHOWN.
LABELS SHOWN ARE FOR REFERENCE PURPOSES ONLY.

0 200 400 600 800 1,000 Feet

N

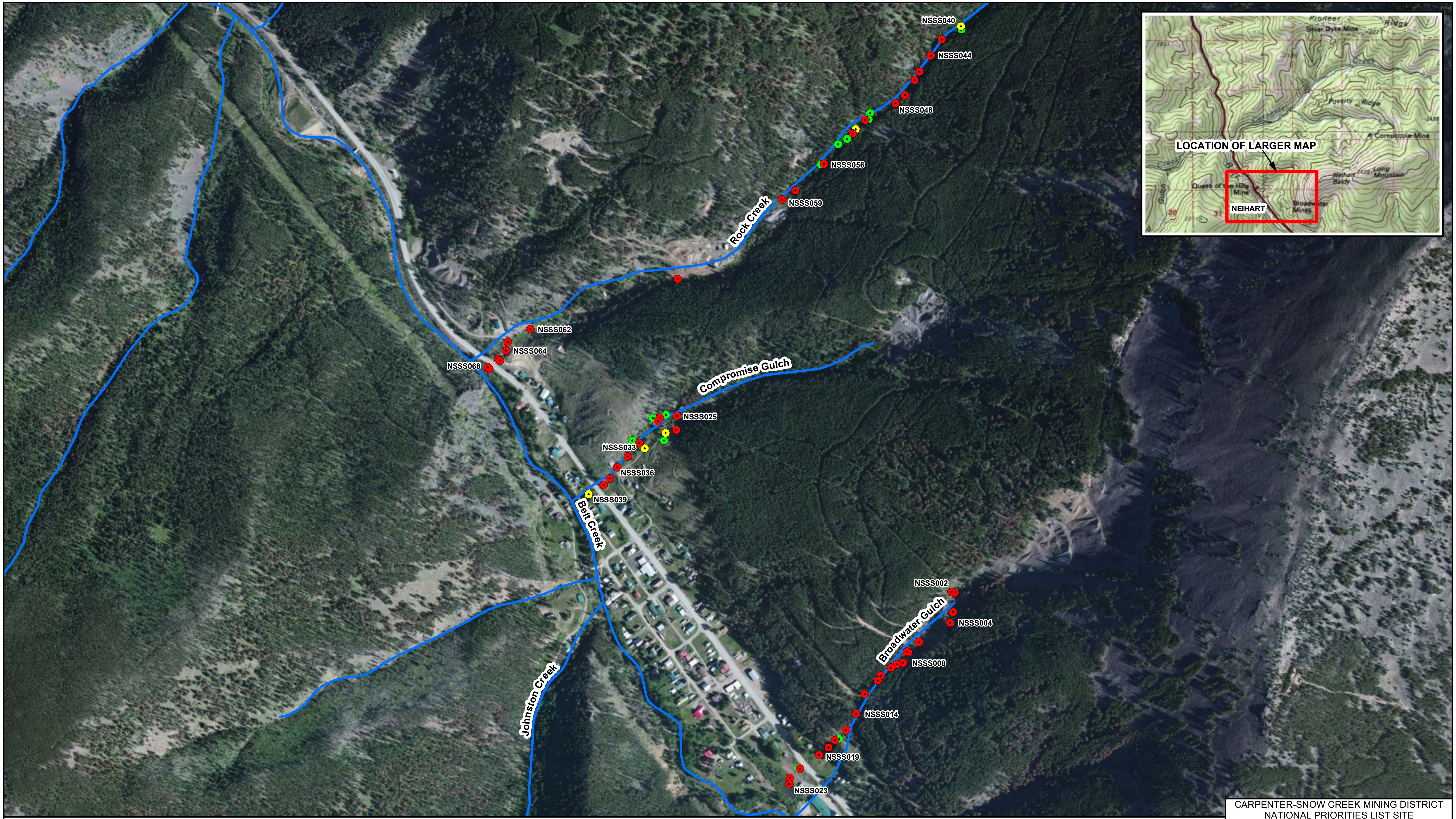
CARPENTER-SNOW CREEK MINING DISTRICT
NATIONAL PRIORITIES LIST SITE

FIGURE 6B

SNOW CREEK
IN SITU XRF STREAMSIDE SAMPLING
ZINC RESULTS

TETRA TECH EM INC.

GIS MAP BY DOUG HEROLD TTEMI-HELENA - Figure_6B_Streamside_Sampling_Zinc_SC_012413.mxd



AERIAL IMAGERY SOURCE: BING SATELLITE IMAGE

LEGEND

STREAM

XRF Sample Result: Lead in Milligrams Per Kilogram (mg/kg)

- 0 - 600 mg/kg
- 600 - 1,200 mg/kg
- > 1,200 mg/kg

NOTE:
NOT ALL SAMPLE POINT NAME LABELS ARE SHOWN.
LABELS SHOWN ARE FOR REFERENCE PURPOSES ONLY.

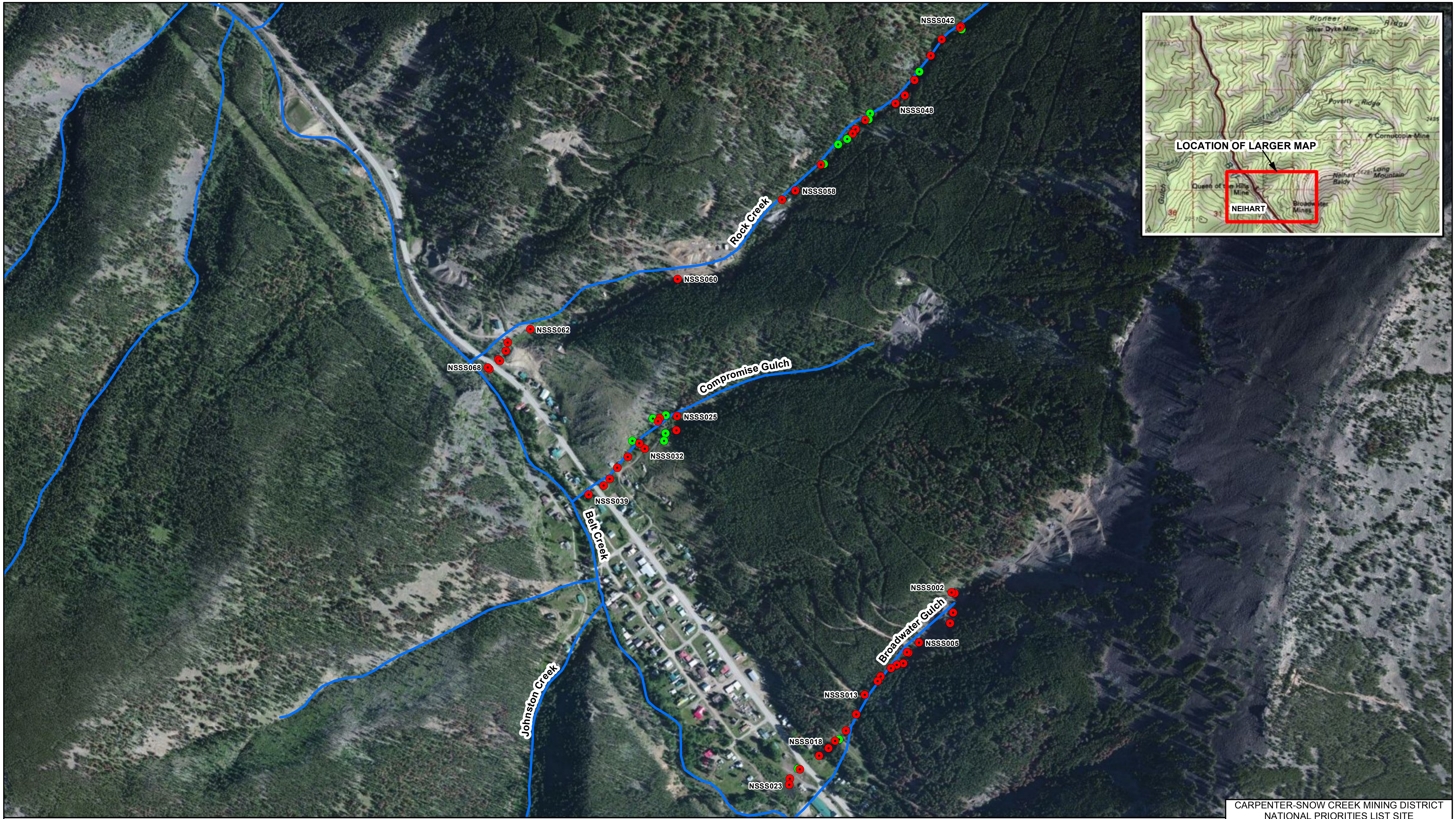
0 200 400 600 800 1,000
Feet

CARPENTER-SNOW CREEK MINING DISTRICT
NATIONAL PRIORITIES LIST SITE

FIGURE 7A
NEIHART SLOPE
IN SITU XRF STREAMSIDE SAMPLING
LEAD RESULTS

TETRA TECH EM INC.

GIS MAP BY DOUG HEROLD TTEMI-HELENA - Figure_7A_Streamside_Sampling_Lead_NS_012313.mxd



AERIAL IMAGERY SOURCE: BING SATELLITE IMAGE

LEGEND

STREAM

XRF Sample Result: Zinc in Milligrams Per Kilogram (mg/kg)

- 0 - 900 mg/kg
- 900 - 1,100 mg/kg
- > 1,100 mg/kg

NOTE:
NOT ALL SAMPLE POINT NAME LABELS ARE SHOWN.
LABELS SHOWN ARE FOR REFERENCE PURPOSES ONLY.

N

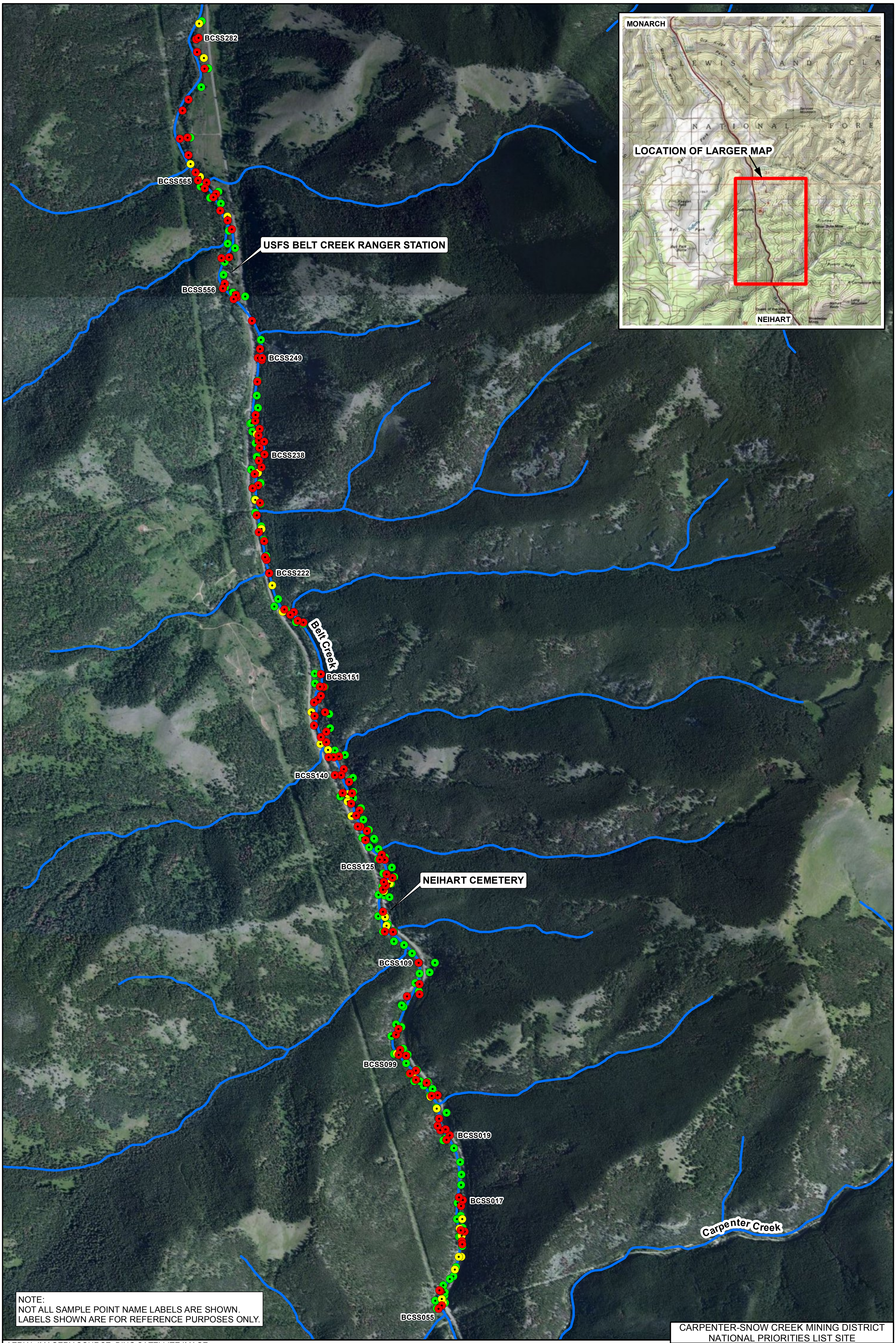
0 200 400 600 800 1,000 Feet

CARPENTER-SNOW CREEK MINING DISTRICT
NATIONAL PRIORITIES LIST SITE

FIGURE 7B
NEIHART SLOPE
IN SITU XRF STREAMSIDE SAMPLING
ZINC RESULTS

TETRA TECH EM INC.

GIS MAP BY DOUG HEROLD TTEMI-HELENA - Figure_7B_Streamside_Sampling_Zinc_NS_012413.mxd



AERIAL IMAGERY SOURCE: BING SATELLITE IMAGE

LEGEND

STREAM

XRF Sample Result: Lead in Milligrams Per Kilogram (mg/kg)

- 0 - 600 mg/kg
- 600 - 1,200 mg/kg
- > 1,200 mg/kg

N

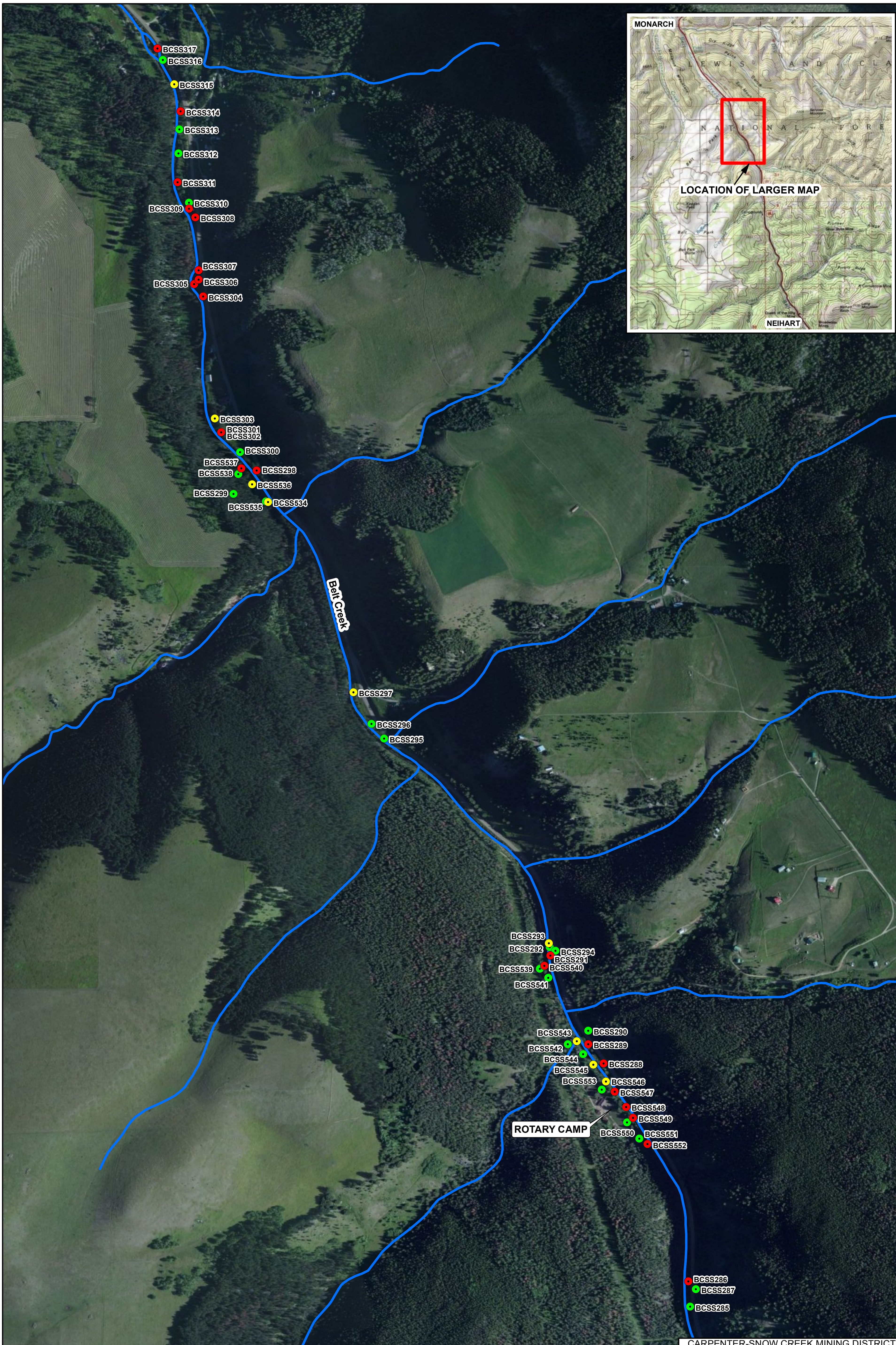
0 400 800 1,200 1,600 2,000 Feet

CARPENTER-SNOW CREEK MINING DISTRICT
NATIONAL PRIORITIES LIST SITE

FIGURE 8A-1
BELT CREEK (SOUTH)
IN SITU XRF STREAMSIDE SAMPLING
LEAD RESULTS

TETRA TECH EM INC.

GIS MAP BY DOUG HEROLD TTEMI-HELENA - Figure_8A-1_Streamside_Sampling_Lead_BC_012313.mxd



AERIAL IMAGERY SOURCE: BING SATELLITE IMAGE

LEGEND

STREAM

XRF Sample Result: Lead in Milligrams Per Kilogram (mg/kg)

- 0 - 600 mg/kg
- 600 - 1,200 mg/kg
- > 1,200 mg/kg

N

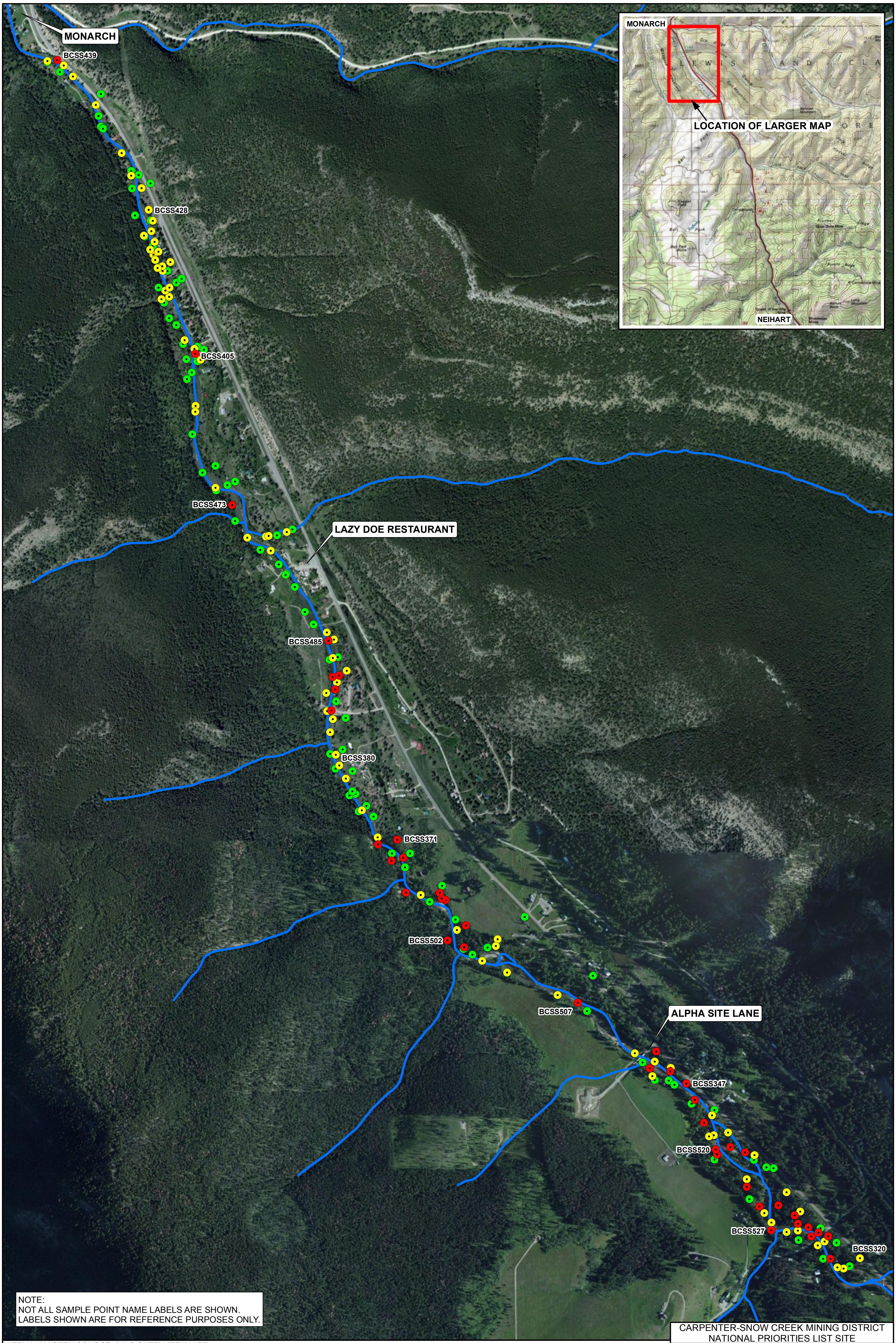
0 300 600 900 1,200 Feet

CARPENTER-SNOW CREEK MINING DISTRICT
NATIONAL PRIORITIES LIST SITE

FIGURE 8A-2
BELT CREEK (MIDDLE)
IN SITU XRF STREAMSIDE SAMPLING
LEAD RESULTS

TETRA TECH EM INC.

GIS MAP BY DOUG HEROLD TTEMI-HELENA - Figure_8A-2_Streamside_Sampling_Lead_BC_012313.mxd



AERIAL IMAGERY SOURCE: BING SATELLITE IMAGE

LEGEND

STREAM

XRF Sample Result: Lead in Milligrams Per Kilogram (mg/kg)

- 0 - 600 mg/kg
- 600 - 1,200 mg/kg
- > 1,200 mg/kg

N

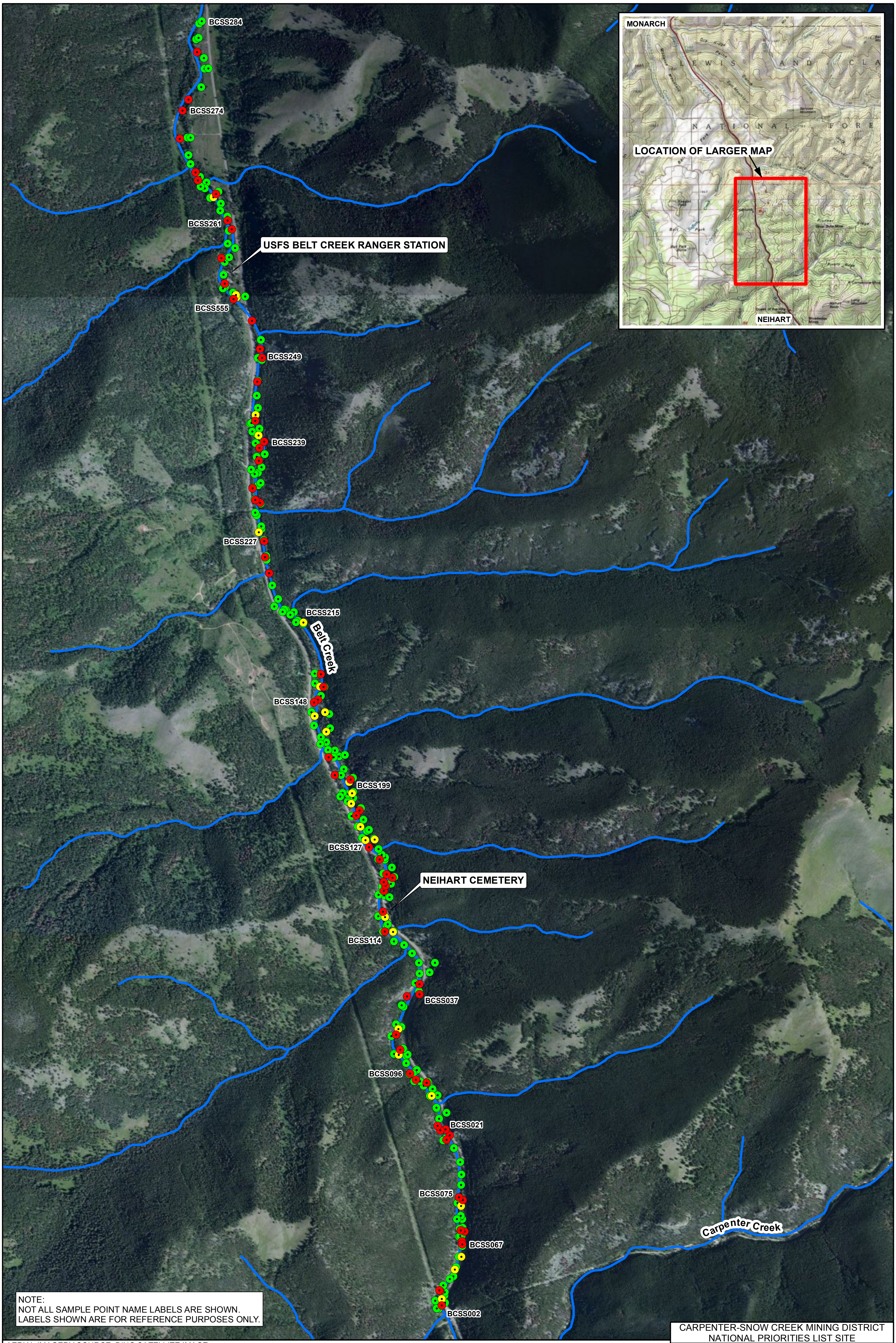
0 300 600 900 1,200 1,500 Feet

CARPENTER-SNOW CREEK MINING DISTRICT
NATIONAL PRIORITIES LIST SITE

FIGURE 8A-3
BELT CREEK (NORTH)
IN SITU XRF STREAMSIDE SAMPLING
LEAD RESULTS

TETRA TECH EM INC.

GIS MAP BY DOUG HEROLD TTEMI-HELENA - Figure_8A-3_Streamside_Sampling_Lead_BC_012313.mxd



AERIAL IMAGERY SOURCE: BING SATELLITE IMAGE

LEGEND

STREAM

XRF Sample Result: Zinc in Milligrams Per Kilogram (mg/kg)

- 0 - 900 mg/kg
- 900 - 1,100 mg/kg
- > 1,100 mg/kg

N

0 400 800 1,200 1,600 2,000 Feet

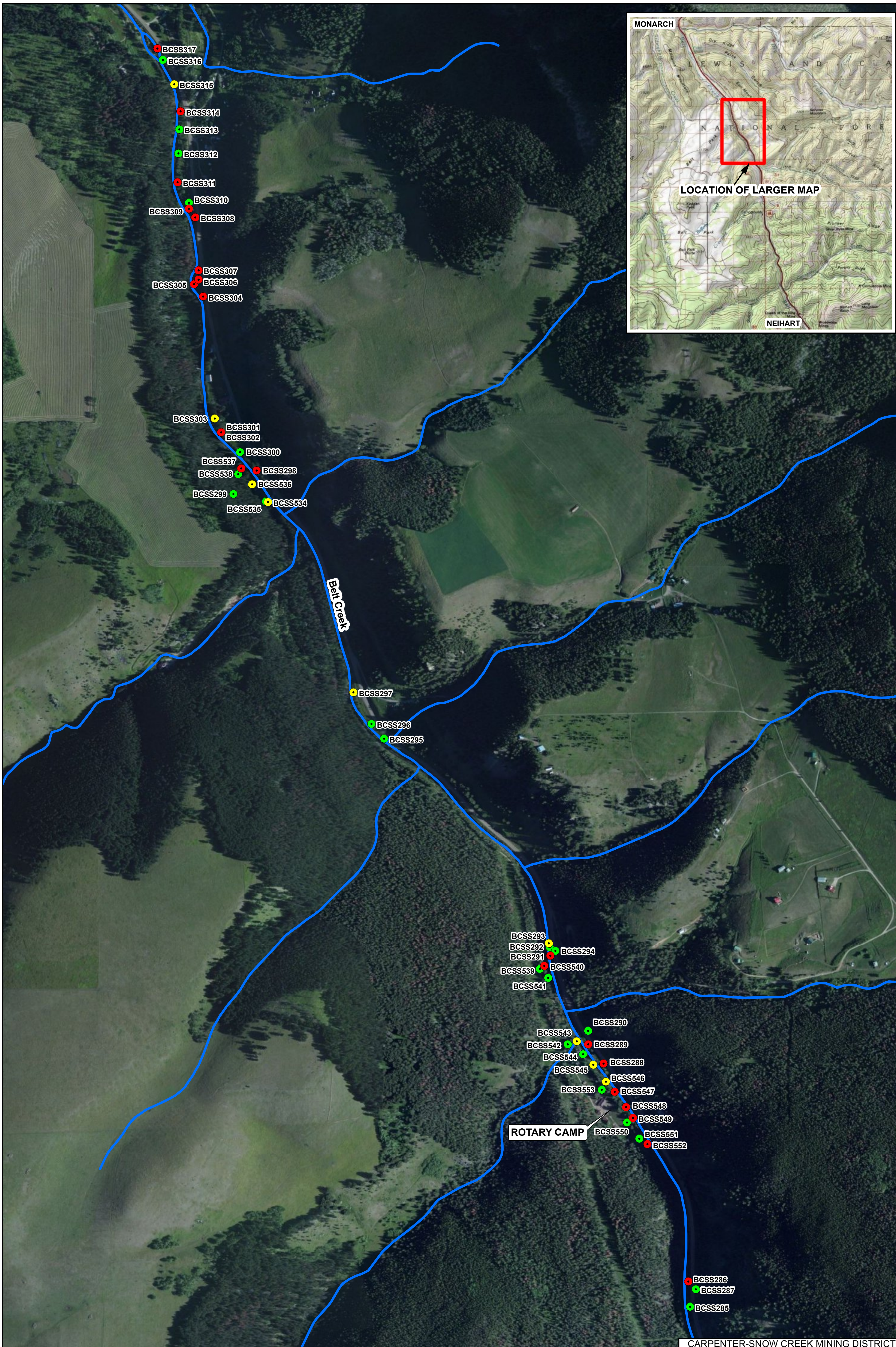
CARPENTER-SNOW CREEK MINING DISTRICT
NATIONAL PRIORITIES LIST SITE

FIGURE 8B-1

BELT CREEK (SOUTH)
IN SITU XRF STREAMSIDE SAMPLING
ZINC RESULTS

TETRA TECH EM INC.

GIS MAP BY DOUG HEROLD TTEMI-HELENA - Figure_8B-1_Streamside_Sampling_Zinc_BC_012413.mxd



AERIAL IMAGERY SOURCE: BING SATELLITE IMAGE

LEGEND

STREAM

XRF Sample Result: Zinc in Milligrams Per Kilogram (mg/kg)

- 0 - 900 mg/kg
- 900 - 1,100 mg/kg
- > 1,100 mg/kg

N

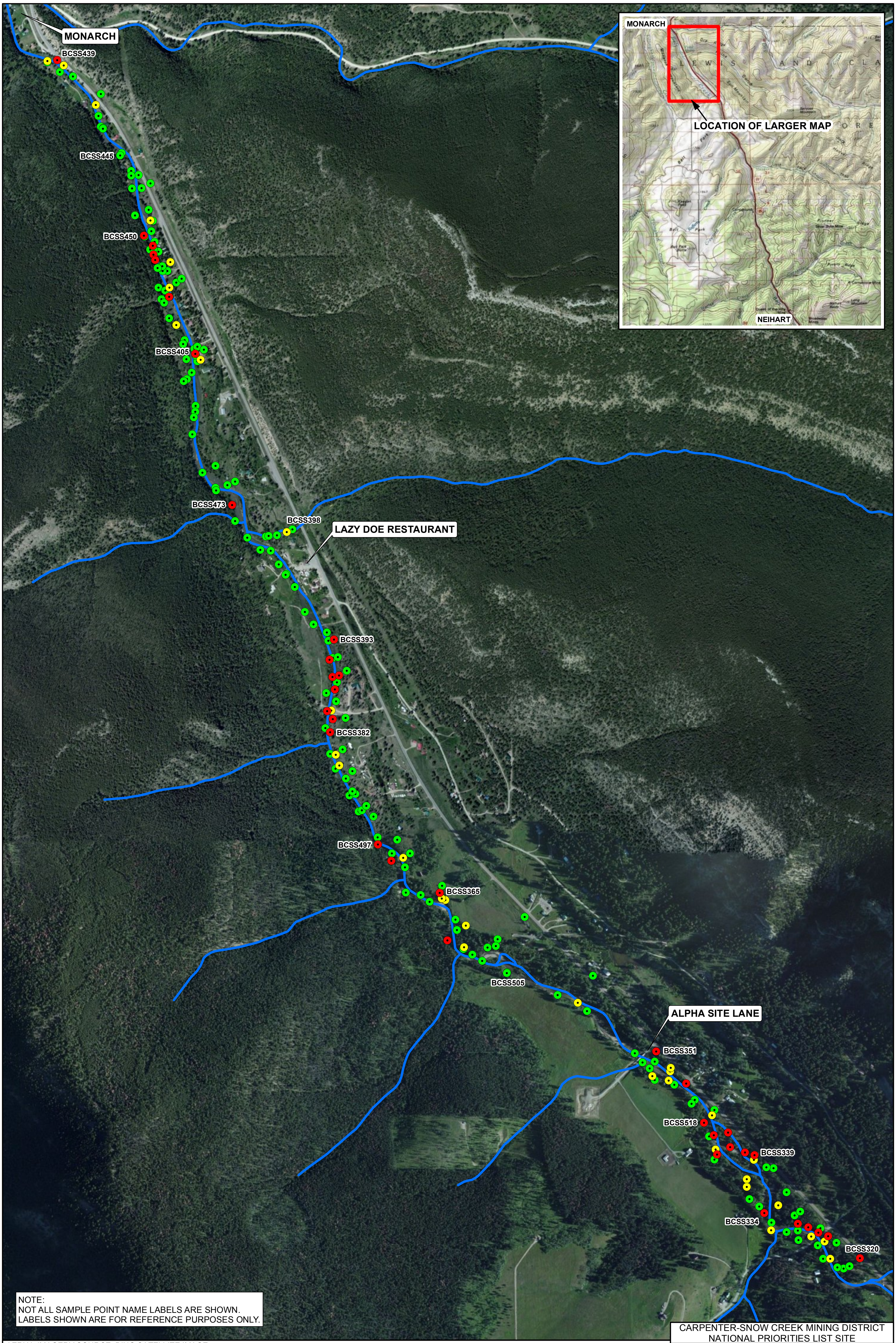
0 300 600 900 1,200 Feet

CARPENTER-SNOW CREEK MINING DISTRICT
NATIONAL PRIORITIES LIST SITE

FIGURE 8B-2
BELT CREEK (MIDDLE)
IN SITU XRF STREAMSIDE SAMPLING
ZINC RESULTS

TETRA TECH EM INC.

GIS MAP BY DOUG HEROLD TTEMI-HELENA - Figure_8B-2_Streamside_Sampling_Zinc_BC_012413.mxd



AERIAL IMAGERY SOURCE: BING SATELLITE IMAGE

LEGEND

STREAM

XRF Sample Result: Zinc in Milligrams Per Kilogram (mg/kg)

- 0 - 900 mg/kg
- 900 - 1,100 mg/kg
- > 1,100 mg/kg

N

0 300 600 900 1,200 1,500 Feet

CARPENTER-SNOW CREEK MINING DISTRICT
NATIONAL PRIORITIES LIST SITE

FIGURE 8B-3
BELT CREEK (NORTH)
IN SITU XRF STREAMSIDE SAMPLING
ZINC RESULTS

TETRA TECH EM INC.

GIS MAP BY DOUG HEROLD TTEMI-HELENA - Figure_8B-3_Streamside_Sampling_Zinc_BC_012413.mxd

TABLES

TABLE 1: IN SITU ANALYTICAL RESULTS

Sample Name	As (mg/kg)	Cd (mg/kg)	Cu (mg/kg)	Pb (mg/kg)	Zn (mg/kg)
BCSS-SS-I-001	<LOD	<LOD	54	101	150
BCSS-SS-I-002	<LOD	<LOD	966	2,361	1,135
BCSS-SS-I-003	<LOD	<LOD	184	896	535
BCSS-SS-I-004	<LOD	<LOD	49	34	88
BCSS-SS-I-005	<LOD	<LOD	115	893	1,014
BCSS-SS-I-006	<LOD	<LOD	87	293	324
BCSS-SS-I-007	<LOD	<LOD	49	350	818
BCSS-SS-I-008	<LOD	<LOD	<LOD	195	104
BCSS-SS-I-009	<LOD	<LOD	305	744	1,079
BCSS-SS-I-010	<LOD	<LOD	595	1,284	1,544
BCSS-SS-I-011	<LOD	<LOD	1,123	2,549	1,583
BCSS-SS-I-012	<LOD	<LOD	<LOD	128	325
BCSS-SS-I-013	64	<LOD	280	964	542
BCSS-SS-I-014	<LOD	<LOD	51	202	265
BCSS-SS-I-015	<LOD	<LOD	860	2,849	1,027
BCSS-SS-I-016	47	<LOD	<LOD	79	177
BCSS-SS-I-017	<LOD	<LOD	1,578	4,003	2,565
BCSS-SS-I-018	<LOD	<LOD	<LOD	129	198
BCSS-SS-I-019	<LOD	<LOD	1,198	3,576	2,028
BCSS-SS-I-020	<LOD	<LOD	460	1,246	955
BCSS-SS-I-021	<LOD	<LOD	1,417	4,721	1,897
BCSS-SS-I-022	35	<LOD	84	341	364
BCSS-SS-I-023	<LOD	<LOD	281	1,808	720
BCSS-SS-I-024	<LOD	<LOD	130	391	408
BCSS-SS-I-025	<LOD	<LOD	986	2,982	1,225
BCSS-SS-I-026	<LOD	<LOD	<LOD	141	133
BCSS-SS-I-027	<LOD	<LOD	597	1,683	806
BCSS-SS-I-028	<LOD	<LOD	55	60	78
BCSS-SS-I-029	<LOD	<LOD	172	1,684	440
BCSS-SS-I-030	<LOD	<LOD	39	62	74
BCSS-SS-I-031	<LOD	<LOD	1,179	3,319	1,124
BCSS-SS-I-032	<LOD	<LOD	<LOD	43	126
BCSS-SS-I-033	<LOD	<LOD	938	2,797	1,652
BCSS-SS-I-034	<LOD	<LOD	1,003	2,079	1,050
BCSS-SS-I-035	<LOD	<LOD	69	47	128
BCSS-SS-I-036	<LOD	<LOD	963	2,939	1,583
BCSS-SS-I-038	<LOD	<LOD	58	125	144
BCSS-SS-I-039	<LOD	<LOD	2,073	5,400	1,834
BCSS-SS-I-040	22	<LOD	<LOD	68	169
BCSS-SS-I-041	<LOD	<LOD	<LOD	88	211
BCSS-SS-I-042	<LOD	<LOD	<LOD	116	236
BCSS-SS-I-043	<LOD	<LOD	796	2,031	913
BCSS-SS-I-044	<LOD	<LOD	372	1,135	881
BCSS-SS-I-045	<LOD	<LOD	37	65	204

TABLE 1: IN SITU ANALYTICAL RESULTS

Sample Name	As (mg/kg)	Cd (mg/kg)	Cu (mg/kg)	Pb (mg/kg)	Zn (mg/kg)
BCSS-SS-I-046	<LOD	<LOD	<LOD	83	185
BCSS-SS-I-047	<LOD	<LOD	266	943	1,021
BCSS-SS-I-048	<LOD	<LOD	998	2,572	1,332
BCSS-SS-I-049	<LOD	<LOD	231	502	419
BCSS-SS-I-050	<LOD	<LOD	<LOD	127	212
BCSS-SS-I-051	49	<LOD	471	636	351
BCSS-SS-I-052	<LOD	<LOD	120	340	332
BCSS-SS-I-053	<LOD	<LOD	1,624	4,187	1,474
BCSS-SS-I-054	<LOD	<LOD	43	159	237
BCSS-SS-I-055	<LOD	<LOD	1,742	2,060	820
BCSS-SS-I-056	39	<LOD	105	276	322
BCSS-SS-I-057	<LOD	<LOD	90	351	232
BCSS-SS-I-058	<LOD	<LOD	528	1,529	657
BCSS-SS-I-059	<LOD	<LOD	1,238	4,271	1,130
BCSS-SS-I-060	135	<LOD	926	2,251	1,529
BCSS-SS-I-061	<LOD	<LOD	115	404	382
BCSS-SS-I-062	42	<LOD	<LOD	222	228
BCSS-SS-I-063	<LOD	<LOD	346	812	1,059
BCSS-SS-I-064	<LOD	<LOD	<LOD	198	211
BCSS-SS-I-065	<LOD	<LOD	<LOD	876	447
BCSS-SS-I-066	32	<LOD	54	235	286
BCSS-SS-I-067	<LOD	<LOD	623	1,655	1,106
BCSS-SS-I-068	<LOD	<LOD	269	1,086	765
BCSS-SS-I-069	44	<LOD	304	495	674
BCSS-SS-I-070	31	<LOD	53	186	430
BCSS-SS-I-071	<LOD	<LOD	1,269	3,504	1,212
BCSS-SS-I-072	64	<LOD	303	895	564
BCSS-SS-I-073	<LOD	<LOD	96	247	292
BCSS-SS-I-074	43	<LOD	76	355	301
BCSS-SS-I-075	<LOD	<LOD	1,039	3,184	1,143
BCSS-SS-I-076	<LOD	<LOD	67	282	283
BCSS-SS-I-077	<LOD	<LOD	<LOD	588	424
BCSS-SS-I-078	<LOD	<LOD	46	257	235
BCSS-SS-I-079	<LOD	<LOD	<LOD	130	287
BCSS-SS-I-080	159	<LOD	2,160	4,151	2,305
BCSS-SS-I-081	<LOD	<LOD	87	493	418
BCSS-SS-I-082	<LOD	<LOD	61	150	193
BCSS-SS-I-083	<LOD	<LOD	1,233	2,813	1,396
BCSS-SS-I-084	<LOD	<LOD	1,469	3,866	2,027
BCSS-SS-I-085	<LOD	<LOD	649	1,987	881
BCSS-SS-I-086	69	<LOD	86	749	333
BCSS-SS-I-087	<LOD	<LOD	40	196	348
BCSS-SS-I-088	<LOD	<LOD	702	1,998	984
BCSS-SS-I-089	<LOD	<LOD	58	639	360
BCSS-SS-I-090	<LOD	<LOD	<LOD	244	279

TABLE 1: IN SITU ANALYTICAL RESULTS

Sample Name	As (mg/kg)	Cd (mg/kg)	Cu (mg/kg)	Pb (mg/kg)	Zn (mg/kg)
BCSS-SS-I-091	<LOD	<LOD	<LOD	149	214
BCSS-SS-I-092	<LOD	<LOD	93	536	284
BCSS-SS-I-093	<LOD	<LOD	42	1,806	1,561
BCSS-SS-I-094	<LOD	<LOD	<LOD	130	165
BCSS-SS-I-095	<LOD	<LOD	215	799	639
BCSS-SS-I-096	148	<LOD	76	2,421	1,278
BCSS-SS-I-097	<LOD	<LOD	<LOD	242	255
BCSS-SS-I-098	<LOD	<LOD	36	159	218
BCSS-SS-I-099	<LOD	<LOD	837	2,158	926
BCSS-SS-I-100	58	<LOD	220	1,050	774
BCSS-SS-I-101	<LOD	<LOD	<LOD	121	200
BCSS-SS-I-102	<LOD	<LOD	72	210	252
BCSS-SS-I-103	<LOD	<LOD	55	386	357
BCSS-SS-I-104	51	<LOD	82	550	453
BCSS-SS-I-105	<LOD	<LOD	<LOD	136	210
BCSS-SS-I-106	<LOD	<LOD	172	1,214	1,101
BCSS-SS-I-107	<LOD	<LOD	73	534	771
BCSS-SS-I-108	<LOD	<LOD	<LOD	71	142
BCSS-SS-I-109	<LOD	<LOD	625	2,187	457
BCSS-SS-I-110	<LOD	<LOD	46	91	190
BCSS-SS-I-111	<LOD	<LOD	52	175	237
BCSS-SS-I-112	35	<LOD	66	307	273
BCSS-SS-I-113	29	<LOD	<LOD	104	135
BCSS-SS-I-114	<LOD	<LOD	1,060	3,383	1,333
BCSS-SS-I-115	<LOD	<LOD	53	73	142
BCSS-SS-I-116	<LOD	<LOD	86	264	244
BCSS-SS-I-117	<LOD	<LOD	<LOD	63	136
BCSS-SS-I-118	<LOD	<LOD	597	783	2,524
BCSS-SS-I-119	<LOD	<LOD	443	1,474	774
BCSS-SS-I-120	<LOD	<LOD	44	94	137
BCSS-SS-I-121	<LOD	<LOD	1,711	5,027	2,007
BCSS-SS-I-122	<LOD	<LOD	676	2,400	1,424
BCSS-SS-I-123	156	<LOD	885	2,036	1,179
BCSS-SS-I-124	<LOD	<LOD	<LOD	120	233
BCSS-SS-I-125	<LOD	<LOD	56	2,263	1,157
BCSS-SS-I-126	<LOD	<LOD	<LOD	97	313
BCSS-SS-I-127	<LOD	<LOD	156	542	1,293
BCSS-SS-I-128	<LOD	<LOD	882	2,430	902
BCSS-SS-I-129	<LOD	<LOD	93	583	364
BCSS-SS-I-130	<LOD	<LOD	508	2,028	1,039
BCSS-SS-I-131	<LOD	<LOD	387	1,854	707
BCSS-SS-I-132	<LOD	<LOD	1,209	3,681	1,464
BCSS-SS-I-133	<LOD	<LOD	118	658	442
BCSS-SS-I-134	<LOD	<LOD	416	2,286	970
BCSS-SS-I-135	<LOD	<LOD	213	859	684

TABLE 1: IN SITU ANALYTICAL RESULTS

Sample Name	As (mg/kg)	Cd (mg/kg)	Cu (mg/kg)	Pb (mg/kg)	Zn (mg/kg)
BCSS-SS-I-136	<LOD	<LOD	302	897	815
BCSS-SS-I-137	<LOD	<LOD	380	1,451	773
BCSS-SS-I-138	<LOD	<LOD	53	281	303
BCSS-SS-I-139	<LOD	<LOD	1,093	3,479	752
BCSS-SS-I-140	79	<LOD	214	1,741	1,514
BCSS-SS-I-141	<LOD	<LOD	386	1,287	652
BCSS-SS-I-142	<LOD	<LOD	881	3,094	1,531
BCSS-SS-I-143	<LOD	<LOD	289	1,068	684
BCSS-SS-I-144	<LOD	<LOD	342	795	722
BCSS-SS-I-145	<LOD	<LOD	425	1,284	553
BCSS-SS-I-146	<LOD	<LOD	857	2,334	1,012
BCSS-SS-I-147	<LOD	<LOD	237	830	475
BCSS-SS-I-148	<LOD	<LOD	1,412	3,580	1,463
BCSS-SS-I-149	<LOD	<LOD	777	2,205	1,021
BCSS-SS-I-150	<LOD	<LOD	120	504	322
BCSS-SS-I-151	<LOD	<LOD	1,153	2,909	1,387
BCSS-SS-I-152	<LOD	<LOD	<LOD	68	171
BCSS-SS-I-153	<LOD	<LOD	608	1,622	838
BCSS-SS-I-154	<LOD	<LOD	<LOD	82	182
BCSS-SS-I-155	<LOD	<LOD	661	2,074	893
BCSS-SS-I-156	<LOD	<LOD	199	812	468
BCSS-SS-I-157	<LOD	<LOD	<LOD	78	77
BCSS-SS-I-158	<LOD	<LOD	969	3,264	1,016
BCSS-SS-I-159	<LOD	<LOD	651	2,082	858
BCSS-SS-I-160	<LOD	<LOD	<LOD	69	119
BCSS-SS-I-161	49	<LOD	67	759	2,093
BCSS-SS-I-162	<LOD	<LOD	<LOD	110	247
BCSS-SS-I-163	<LOD	<LOD	768	2,229	1,551
BCSS-SS-I-164	<LOD	<LOD	<LOD	101	223
BCSS-SS-I-165	<LOD	<LOD	462	1,580	803
BCSS-SS-I-166	29	<LOD	63	172	153
BCSS-SS-I-167	<LOD	<LOD	748	1,704	1,544
BCSS-SS-I-168	<LOD	<LOD	81	253	231
BCSS-SS-I-169	<LOD	<LOD	851	2,651	1,359
BCSS-SS-I-170	<LOD	<LOD	<LOD	72	159
BCSS-SS-I-171	<LOD	<LOD	565	1,678	782
BCSS-SS-I-172	<LOD	<LOD	644	2,265	1,034
BCSS-SS-I-173	<LOD	<LOD	227	948	675
BCSS-SS-I-174	<LOD	<LOD	<LOD	68	144
BCSS-SS-I-175	<LOD	<LOD	<LOD	61	135
BCSS-SS-I-176	<LOD	<LOD	45	146	149
BCSS-SS-I-177	<LOD	<LOD	405	1,281	865
BCSS-SS-I-178	141	<LOD	706	2,281	1,180
BCSS-SS-I-179	<LOD	<LOD	93	358	304
BCSS-SS-I-180	<LOD	<LOD	874	2,666	1,328

TABLE 1: IN SITU ANALYTICAL RESULTS

Sample Name	As (mg/kg)	Cd (mg/kg)	Cu (mg/kg)	Pb (mg/kg)	Zn (mg/kg)
BCSS-SS-I-181	<LOD	<LOD	1,763	4,250	2,211
BCSS-SS-I-182	<LOD	<LOD	<LOD	50	127
BCSS-SS-I-183	<LOD	<LOD	52	125	198
BCSS-SS-I-184	<LOD	<LOD	439	1,724	644
BCSS-SS-I-185	<LOD	<LOD	<LOD	69	114
BCSS-SS-I-186	<LOD	<LOD	602	2,152	741
BCSS-SS-I-187	<LOD	<LOD	<LOD	52	72
BCSS-SS-I-188	<LOD	<LOD	158	589	901
BCSS-SS-I-189	<LOD	<LOD	<LOD	49	128
BCSS-SS-I-190	<LOD	<LOD	451	1,387	636
BCSS-SS-I-191	<LOD	<LOD	<LOD	51	174
BCSS-SS-I-192	<LOD	<LOD	112	407	448
BCSS-SS-I-193	<LOD	<LOD	1,085	3,248	1,946
BCSS-SS-I-194	<LOD	<LOD	<LOD	55	173
BCSS-SS-I-195	<LOD	<LOD	69	54	130
BCSS-SS-I-196	<LOD	<LOD	239	1,675	951
BCSS-SS-I-197	<LOD	<LOD	44	56	219
BCSS-SS-I-198	<LOD	<LOD	476	1,802	941
BCSS-SS-I-199	<LOD	<LOD	<LOD	578	1,197
BCSS-SS-I-200	<LOD	<LOD	<LOD	329	466
BCSS-SS-I-201	<LOD	<LOD	403	1,719	446
BCSS-SS-I-202	<LOD	<LOD	442	1,707	880
BCSS-SS-I-203	<LOD	<LOD	<LOD	70	175
BCSS-SS-I-204	<LOD	<LOD	56	47	195
BCSS-SS-I-205	<LOD	<LOD	369	1,328	817
BCSS-SS-I-206	<LOD	<LOD	615	1,607	635
BCSS-SS-I-207	87	<LOD	681	2,009	1,080
BCSS-SS-I-208	<LOD	<LOD	45	45	101
BCSS-SS-I-209	<LOD	<LOD	<LOD	37	111
BCSS-SS-I-210	<LOD	<LOD	1,099	3,628	1,081
BCSS-SS-I-211	<LOD	<LOD	785	2,372	1,249
BCSS-SS-I-212	<LOD	<LOD	612	2,403	841
BCSS-SS-I-213	<LOD	<LOD	1,083	3,145	1,477
BCSS-SS-I-214	<LOD	<LOD	59	43	115
BCSS-SS-I-215	<LOD	<LOD	1,127	2,854	991
BCSS-SS-I-216	<LOD	<LOD	54	114	169
BCSS-SS-I-217	121	<LOD	351	1,476	748
BCSS-SS-I-218	<LOD	<LOD	55	57	121
BCSS-SS-I-219	<LOD	<LOD	1,048	2,974	820
BCSS-SS-I-220	34	<LOD	38	152	160
BCSS-SS-I-221	<LOD	<LOD	197	623	702
BCSS-SS-I-222	<LOD	<LOD	604	1,220	1,133
BCSS-SS-I-223	<LOD	<LOD	49	113	132
BCSS-SS-I-224	116	<LOD	532	2,035	634
BCSS-SS-I-225	<LOD	<LOD	<LOD	42	132

TABLE 1: IN SITU ANALYTICAL RESULTS

Sample Name	As (mg/kg)	Cd (mg/kg)	Cu (mg/kg)	Pb (mg/kg)	Zn (mg/kg)
BCSS-SS-I-226	<LOD	<LOD	755	2,428	1,121
BCSS-SS-I-227	<LOD	<LOD	464	1,377	1,492
BCSS-SS-I-228	16	<LOD	<LOD	80	153
BCSS-SS-I-229	<LOD	<LOD	178	1,015	462
BCSS-SS-I-230	<LOD	<LOD	<LOD	59	153
BCSS-SS-I-231	<LOD	<LOD	<LOD	79	137
BCSS-SS-I-232	<LOD	<LOD	1,173	2,708	1,129
BCSS-SS-I-233	<LOD	<LOD	366	1,675	900
BCSS-SS-I-234	<LOD	<LOD	<LOD	52	140
BCSS-SS-I-235	<LOD	<LOD	446	1,180	803
BCSS-SS-I-236	<LOD	<LOD	885	2,309	803
BCSS-SS-I-237	<LOD	<LOD	426	1,231	896
BCSS-SS-I-238	<LOD	<LOD	<LOD	79	134
BCSS-SS-I-239	<LOD	<LOD	1,470	4,584	1,671
BCSS-SS-I-240	<LOD	<LOD	554	1,672	762
BCSS-SS-I-241	<LOD	<LOD	53	339	180
BCSS-SS-I-242	<LOD	<LOD	626	1,635	1,332
BCSS-SS-I-243	<LOD	<LOD	907	2,097	911
BCSS-SS-I-244	<LOD	<LOD	<LOD	89	213
BCSS-SS-I-245	<LOD	<LOD	<LOD	64	128
BCSS-SS-I-246	<LOD	<LOD	1,181	2,827	1,276
BCSS-SS-I-247	19	<LOD	<LOD	104	260
BCSS-SS-I-248	<LOD	<LOD	543	1,844	822
BCSS-SS-I-249	<LOD	<LOD	1,299	3,624	1,475
BCSS-SS-I-250	<LOD	<LOD	101	368	211
BCSS-SS-I-251	<LOD	<LOD	747	2,029	917
BCSS-SS-I-252	<LOD	<LOD	609	2,624	1,006
BCSS-SS-I-253	<LOD	<LOD	55	244	292
BCSS-SS-I-254	<LOD	<LOD	<LOD	150	686
BCSS-SS-I-255	<LOD	<LOD	677	1,807	1,137
BCSS-SS-I-256	<LOD	<LOD	<LOD	102	108
BCSS-SS-I-257	<LOD	<LOD	90	396	400
BCSS-SS-I-258	<LOD	<LOD	599	1,975	798
BCSS-SS-I-259	<LOD	<LOD	<LOD	124	195
BCSS-SS-I-260	<LOD	<LOD	606	1,984	1,137
BCSS-SS-I-261	106	<LOD	865	2,972	1,566
BCSS-SS-I-262	<LOD	<LOD	62	998	819
BCSS-SS-I-263	<LOD	<LOD	<LOD	176	825
BCSS-SS-I-264	<LOD	<LOD	730	2,478	1,226
BCSS-SS-I-265	<LOD	<LOD	50	65	187
BCSS-SS-I-266	<LOD	<LOD	356	1,360	506
BCSS-SS-I-267	<LOD	<LOD	183	714	799
BCSS-SS-I-268	<LOD	<LOD	749	2,256	1,263
BCSS-SS-I-269	52	<LOD	298	711	562
BCSS-SS-I-270	<LOD	<LOD	416	1,362	853

TABLE 1: IN SITU ANALYTICAL RESULTS

Sample Name	**As** (mg/kg)	**Cd** (mg/kg)	**Cu** (mg/kg)	**Pb** (mg/kg)	**Zn** (mg/kg)
BCSS-SS-I-271	<LOD	<LOD	1,303	3,290	1,945
BCSS-SS-I-272	<LOD	<LOD	260	1,226	525
BCSS-SS-I-273	22	<LOD	<LOD	85	212
BCSS-SS-I-274	<LOD	<LOD	816	2,504	1,163
BCSS-SS-I-275	<LOD	<LOD	843	2,350	1,380
BCSS-SS-I-276	<LOD	<LOD	74	307	221
BCSS-SS-I-277	<LOD	<LOD	321	1,240	529
BCSS-SS-I-278	<LOD	<LOD	<LOD	29	89
BCSS-SS-I-279	<LOD	<LOD	318	1,176	663
BCSS-SS-I-280	<LOD	<LOD	1,267	4,056	1,774
BCSS-SS-I-281	<LOD	<LOD	372	1,256	801
BCSS-SS-I-282	91	<LOD	454	1,586	864
BCSS-SS-I-283	<LOD	<LOD	383	1,039	802
BCSS-SS-I-284	36	<LOD	44	159	260
BCSS-SS-I-285	<LOD	<LOD	176	554	688
BCSS-SS-I-286	<LOD	<LOD	246	1,394	646
BCSS-SS-I-287	<LOD	<LOD	<LOD	37	73
BCSS-SS-I-288	<LOD	<LOD	375	1,478	771
BCSS-SS-I-289	<LOD	<LOD	765	2,819	853
BCSS-SS-I-290	<LOD	<LOD	<LOD	91	202
BCSS-SS-I-291	<LOD	<LOD	633	1,611	909
BCSS-SS-I-292	<LOD	<LOD	<LOD	53	121
BCSS-SS-I-293	<LOD	<LOD	298	1,002	712
BCSS-SS-I-294	<LOD	<LOD	<LOD	199	41
BCSS-SS-I-295	<LOD	<LOD	<LOD	35	109
BCSS-SS-I-296	<LOD	<LOD	<LOD	34	247
BCSS-SS-I-297	<LOD	<LOD	357	799	996
BCSS-SS-I-298	<LOD	<LOD	479	2,068	1,323
BCSS-SS-I-299	<LOD	<LOD	45	61	143
BCSS-SS-I-300	<LOD	<LOD	<LOD	45	135
BCSS-SS-I-301	<LOD	<LOD	622	1,797	830
BCSS-SS-I-302	<LOD	<LOD	<LOD	56	154
BCSS-SS-I-303	<LOD	<LOD	332	991	859
BCSS-SS-I-304	<LOD	<LOD	895	2,952	1,305
BCSS-SS-I-305	<LOD	<LOD	1,038	2,658	1,287
BCSS-SS-I-306	<LOD	<LOD	332	1,426	889
BCSS-SS-I-307	<LOD	<LOD	1,014	2,945	1,762
BCSS-SS-I-308	<LOD	<LOD	260	1,327	667
BCSS-SS-I-309	164	<LOD	1,324	2,306	2,173
BCSS-SS-I-310	<LOD	<LOD	<LOD	90	291
BCSS-SS-I-311	<LOD	<LOD	547	1,931	853
BCSS-SS-I-312	<LOD	<LOD	62	457	557
BCSS-SS-I-313	<LOD	<LOD	85	313	226
BCSS-SS-I-314	<LOD	<LOD	898	2,508	1,411
BCSS-SS-I-315	<LOD	<LOD	206	680	1,236

TABLE 1: IN SITU ANALYTICAL RESULTS

Sample Name	As (mg/kg)	Cd (mg/kg)	Cu (mg/kg)	Pb (mg/kg)	Zn (mg/kg)
BCSS-SS-I-316	<LOD	<LOD	187	566	736
BCSS-SS-I-317	<LOD	<LOD	680	2,049	827
BCSS-SS-I-318	<LOD	<LOD	231	1,011	703
BCSS-SS-I-319	<LOD	<LOD	154	501	535
BCSS-SS-I-320	<LOD	<LOD	413	1,036	2,638
BCSS-SS-I-321	<LOD	<LOD	266	983	753
BCSS-SS-I-322	<LOD	<LOD	621	1,831	1,059
BCSS-SS-I-323	<LOD	<LOD	<LOD	100	395
BCSS-SS-I-324	<LOD	<LOD	269	998	959
BCSS-SS-I-325	<LOD	62	439	1,408	4,323
BCSS-SS-I-326	<LOD	<LOD	717	1,867	1,263
BCSS-SS-I-327	<LOD	<LOD	54	226	269
BCSS-SS-I-328	<LOD	<LOD	621	1,712	1,158
BCSS-SS-I-329	<LOD	<LOD	619	1,847	1,180
BCSS-SS-I-330	<LOD	<LOD	262	1,206	678
BCSS-SS-I-331	<LOD	<LOD	346	1,042	676
BCSS-SS-I-332	<LOD	<LOD	606	1,528	938
BCSS-SS-I-333	<LOD	<LOD	359	1,164	892
BCSS-SS-I-334	<LOD	<LOD	234	1,033	1,329
BCSS-SS-I-335	<LOD	<LOD	332	1,010	777
BCSS-SS-I-336	<LOD	<LOD	<LOD	53	97
BCSS-SS-I-337	<LOD	<LOD	<LOD	127	291
BCSS-SS-I-338	<LOD	<LOD	88	204	985
BCSS-SS-I-339	<LOD	<LOD	142	651	1,173
BCSS-SS-I-340	<LOD	<LOD	816	1,852	1,913
BCSS-SS-I-341	<LOD	<LOD	1,061	1,770	1,310
BCSS-SS-I-342	<LOD	<LOD	<LOD	92	710
BCSS-SS-I-343	<LOD	<LOD	460	1,073	1,978
BCSS-SS-I-344	<LOD	<LOD	362	908	1,261
BCSS-SS-I-345	<LOD	<LOD	362	1,100	1,086
BCSS-SS-I-346	<LOD	<LOD	49	110	149
BCSS-SS-I-347	<LOD	<LOD	734	2,351	1,341
BCSS-SS-I-348	<LOD	<LOD	416	1,647	905
BCSS-SS-I-349	<LOD	<LOD	172	694	913
BCSS-SS-I-350	<LOD	<LOD	351	1,181	874
BCSS-SS-I-351	114	<LOD	428	1,806	1,494
BCSS-SS-I-352	<LOD	<LOD	57	327	369
BCSS-SS-I-353	<LOD	<LOD	54	62	154
BCSS-SS-I-354	<LOD	<LOD	225	827	830
BCSS-SS-I-355	<LOD	<LOD	285	707	850
BCSS-SS-I-356	<LOD	<LOD	158	480	557
BCSS-SS-I-357	<LOD	<LOD	124	357	824
BCSS-SS-I-358	<LOD	<LOD	226	591	490
BCSS-SS-I-359	<LOD	<LOD	518	1,587	913
BCSS-SS-I-360	<LOD	<LOD	267	857	784

TABLE 1: IN SITU ANALYTICAL RESULTS

Sample Name	As (mg/kg)	Cd (mg/kg)	Cu (mg/kg)	Pb (mg/kg)	Zn (mg/kg)
BCSS-SS-I-361	<LOD	<LOD	624	2,003	1,097
BCSS-SS-I-362	<LOD	<LOD	94	367	353
BCSS-SS-I-363	<LOD	<LOD	648	1,705	1,043
BCSS-SS-I-364	<LOD	<LOD	606	1,896	972
BCSS-SS-I-365	<LOD	<LOD	481	1,714	1,357
BCSS-SS-I-366	22	<LOD	<LOD	54	184
BCSS-SS-I-367	<LOD	<LOD	231	710	695
BCSS-SS-I-368	<LOD	<LOD	51	75	183
BCSS-SS-I-369	<LOD	<LOD	499	1,361	906
BCSS-SS-I-370	<LOD	<LOD	<LOD	62	181
BCSS-SS-I-371	<LOD	<LOD	346	1,329	824
BCSS-SS-I-372	<LOD	<LOD	205	975	633
BCSS-SS-I-373	<LOD	<LOD	72	286	294
BCSS-SS-I-374	<LOD	<LOD	<LOD	61	296
BCSS-SS-I-375	<LOD	<LOD	61	190	328
BCSS-SS-I-376	<LOD	<LOD	164	508	648
BCSS-SS-I-377	<LOD	<LOD	89	646	619
BCSS-SS-I-378	17	<LOD	<LOD	37	143
BCSS-SS-I-379	<LOD	<LOD	253	1,149	944
BCSS-SS-I-380	<LOD	<LOD	275	994	933
BCSS-SS-I-381	<LOD	<LOD	<LOD	43	128
BCSS-SS-I-382	<LOD	<LOD	294	1,052	1,127
BCSS-SS-I-383	44	<LOD	244	628	1,363
BCSS-SS-I-384	<LOD	<LOD	<LOD	54	75
BCSS-SS-I-385	264	<LOD	104	6,125	907
BCSS-SS-I-386	<LOD	<LOD	143	461	571
BCSS-SS-I-387	556	<LOD	220	8,824	1,393
BCSS-SS-I-388	<LOD	<LOD	288	1,282	797
BCSS-SS-I-389	<LOD	<LOD	203	671	523
BCSS-SS-I-390	<LOD	<LOD	315	1,347	1,182
BCSS-SS-I-391	<LOD	<LOD	142	619	520
BCSS-SS-I-392	<LOD	<LOD	68	295	301
BCSS-SS-I-393	<LOD	<LOD	320	938	1,379
BCSS-SS-I-394	<LOD	<LOD	208	721	849
BCSS-SS-I-395	50	<LOD	231	639	608
BCSS-SS-I-396	<LOD	<LOD	128	530	551
BCSS-SS-I-397	<LOD	<LOD	245	1,174	1,042
BCSS-SS-I-398	<LOD	<LOD	61	319	466
BCSS-SS-I-399	16	<LOD	<LOD	22	80
BCSS-SS-I-400	<LOD	<LOD	<LOD	49	77
BCSS-SS-I-401	<LOD	<LOD	42	67	174
BCSS-SS-I-402	<LOD	<LOD	137	447	582
BCSS-SS-I-403	<LOD	<LOD	225	1,045	999
BCSS-SS-I-404	<LOD	<LOD	61	300	446
BCSS-SS-I-405	<LOD	<LOD	880	1,974	1,653

TABLE 1: IN SITU ANALYTICAL RESULTS

Sample Name	As (mg/kg)	Cd (mg/kg)	Cu (mg/kg)	Pb (mg/kg)	Zn (mg/kg)
BCSS-SS-I-406	<LOD	<LOD	268	991	874
BCSS-SS-I-407	30	<LOD	<LOD	79	304
BCSS-SS-I-408	<LOD	<LOD	<LOD	49	121
BCSS-SS-I-409	<LOD	<LOD	376	1,138	1,474
BCSS-SS-I-410	<LOD	<LOD	140	470	628
BCSS-SS-I-411	<LOD	<LOD	155	761	688
BCSS-SS-I-412	<LOD	<LOD	240	870	1,066
BCSS-SS-I-413	44	<LOD	110	408	449
BCSS-SS-I-414	<LOD	<LOD	90	305	302
BCSS-SS-I-415	<LOD	<LOD	102	323	365
BCSS-SS-I-416	<LOD	<LOD	154	719	654
BCSS-SS-I-417	<LOD	<LOD	152	587	616
BCSS-SS-I-418	<LOD	<LOD	167	617	556
BCSS-SS-I-419	<LOD	<LOD	171	954	954
BCSS-SS-I-420	<LOD	<LOD	234	829	1,334
BCSS-SS-I-421	<LOD	<LOD	171	724	782
BCSS-SS-I-422	<LOD	<LOD	172	525	820
BCSS-SS-I-423	<LOD	<LOD	215	310	1,655
BCSS-SS-I-424	<LOD	<LOD	220	777	723
BCSS-SS-I-425	<LOD	<LOD	388	1,099	869
BCSS-SS-I-426	<LOD	<LOD	98	409	905
BCSS-SS-I-427	<LOD	<LOD	118	610	508
BCSS-SS-I-428	<LOD	<LOD	111	644	533
BCSS-SS-I-429	<LOD	<LOD	202	845	686
BCSS-SS-I-430	<LOD	<LOD	<LOD	64	88
BCSS-SS-I-431	<LOD	<LOD	83	271	241
BCSS-SS-I-432	<LOD	<LOD	105	226	513
BCSS-SS-I-433	<LOD	<LOD	90	419	480
BCSS-SS-I-434	<LOD	<LOD	115	393	523
BCSS-SS-I-435	<LOD	<LOD	177	567	660
BCSS-SS-I-436	<LOD	<LOD	231	805	1,051
BCSS-SS-I-437	<LOD	<LOD	304	981	898
BCSS-SS-I-438	<LOD	<LOD	256	1,074	1,001
BCSS-SS-I-439	<LOD	<LOD	424	1,330	1,856
BCSS-SS-I-440	<LOD	<LOD	<LOD	64	96
BCSS-SS-I-441	<LOD	<LOD	171	644	1,088
BCSS-SS-I-442	<LOD	<LOD	168	548	534
BCSS-SS-I-443	<LOD	<LOD	<LOD	248	223
BCSS-SS-I-444	<LOD	<LOD	153	608	742
BCSS-SS-I-445	13	<LOD	<LOD	15	51
BCSS-SS-I-446	<LOD	<LOD	157	463	651
BCSS-SS-I-447	<LOD	<LOD	166	666	582
BCSS-SS-I-448	<LOD	<LOD	<LOD	26	118
BCSS-SS-I-449	15	<LOD	<LOD	28	80
BCSS-SS-I-450	<LOD	<LOD	244	743	1,481

TABLE 1: IN SITU ANALYTICAL RESULTS

Sample Name	As (mg/kg)	Cd (mg/kg)	Cu (mg/kg)	Pb (mg/kg)	Zn (mg/kg)
BCSS-SS-I-451	<LOD	<LOD	<LOD	36	78
BCSS-SS-I-452	<LOD	<LOD	223	790	764
BCSS-SS-I-453	<LOD	<LOD	235	727	1,107
BCSS-SS-I-454	<LOD	<LOD	241	614	777
BCSS-SS-I-455	<LOD	<LOD	104	510	516
BCSS-SS-I-456	<LOD	<LOD	105	658	568
BCSS-SS-I-457	<LOD	<LOD	<LOD	29	94
BCSS-SS-I-458	<LOD	<LOD	181	552	792
BCSS-SS-I-459	<LOD	<LOD	<LOD	248	1,082
BCSS-SS-I-460	<LOD	<LOD	172	704	650
BCSS-SS-I-461	<LOD	<LOD	82	264	264
BCSS-SS-I-462	<LOD	<LOD	119	467	522
BCSS-SS-I-463	<LOD	<LOD	102	488	832
BCSS-SS-I-464	<LOD	<LOD	156	431	375
BCSS-SS-I-465	<LOD	<LOD	<LOD	<LOD	30
BCSS-SS-I-466	<LOD	<LOD	172	783	664
BCSS-SS-I-467	<LOD	<LOD	446	1,150	651
BCSS-SS-I-468	<LOD	<LOD	<LOD	<LOD	68
BCSS-SS-I-469	<LOD	<LOD	175	533	721
BCSS-SS-I-470	<LOD	<LOD	135	462	582
BCSS-SS-I-471	<LOD	<LOD	258	1,035	659
BCSS-SS-I-472	<LOD	<LOD	<LOD	19	43
BCSS-SS-I-473	<LOD	<LOD	492	1,267	1,135
BCSS-SS-I-474	<LOD	<LOD	203	570	521
BCSS-SS-I-475	<LOD	<LOD	256	847	449
BCSS-SS-I-476	<LOD	<LOD	45	183	281
BCSS-SS-I-477	<LOD	<LOD	197	672	793
BCSS-SS-I-478	<LOD	<LOD	150	460	491
BCSS-SS-I-479	<LOD	<LOD	109	508	426
BCSS-SS-I-480	<LOD	<LOD	<LOD	86	136
BCSS-SS-I-481	<LOD	<LOD	52	128	190
BCSS-SS-I-482	<LOD	<LOD	<LOD	101	181
BCSS-SS-I-483	<LOD	<LOD	45	71	185
BCSS-SS-I-484	<LOD	<LOD	348	842	621
BCSS-SS-I-485	<LOD	<LOD	473	1,475	873
BCSS-SS-I-486	<LOD	<LOD	326	980	666
BCSS-SS-I-487	<LOD	<LOD	91	365	1,282
BCSS-SS-I-488	<LOD	<LOD	523	1,475	1,526
BCSS-SS-I-489	<LOD	<LOD	201	685	681
BCSS-SS-I-490	<LOD	<LOD	180	665	1,298
BCSS-SS-I-491	<LOD	<LOD	55	<LOD	59
BCSS-SS-I-492	<LOD	<LOD	84	119	111
BCSS-SS-I-493	<LOD	<LOD	78	212	375
BCSS-SS-I-494	<LOD	<LOD	86	207	196
BCSS-SS-I-495	<LOD	<LOD	88	401	382

TABLE 1: IN SITU ANALYTICAL RESULTS

Sample Name	As (mg/kg)	Cd (mg/kg)	Cu (mg/kg)	Pb (mg/kg)	Zn (mg/kg)
BCSS-SS-I-496	<LOD	<LOD	336	1,164	803
BCSS-SS-I-497	<LOD	<LOD	520	1,655	1,155
BCSS-SS-I-498	<LOD	<LOD	154	547	852
BCSS-SS-I-499	<LOD	<LOD	530	1,557	1,386
BCSS-SS-I-500	<LOD	<LOD	326	1,330	825
BCSS-SS-I-501	<LOD	<LOD	174	464	725
BCSS-SS-I-502	<LOD	<LOD	603	1,868	1,599
BCSS-SS-I-503	<LOD	<LOD	147	679	801
BCSS-SS-I-504	<LOD	<LOD	188	780	631
BCSS-SS-I-505	<LOD	<LOD	<LOD	30	83
BCSS-SS-I-506	<LOD	<LOD	291	872	673
BCSS-SS-I-507	<LOD	<LOD	415	1,309	923
BCSS-SS-I-508	<LOD	<LOD	<LOD	63	115
BCSS-SS-I-509	<LOD	<LOD	236	706	883
BCSS-SS-I-510	<LOD	<LOD	47	101	200
BCSS-SS-I-511	<LOD	<LOD	237	1,478	849
BCSS-SS-I-512	<LOD	<LOD	278	681	1,073
BCSS-SS-I-513	<LOD	<LOD	57	24	104
BCSS-SS-I-514	<LOD	<LOD	<LOD	66	1,030
BCSS-SS-I-515	<LOD	<LOD	61	207	242
BCSS-SS-I-516	<LOD	<LOD	407	1,309	736
BCSS-SS-I-517	21	<LOD	<LOD	38	175
BCSS-SS-I-518	<LOD	<LOD	581	1,463	1,367
BCSS-SS-I-519	<LOD	<LOD	165	803	805
BCSS-SS-I-520	<LOD	<LOD	426	1,573	916
BCSS-SS-I-521	<LOD	<LOD	903	2,472	1,822
BCSS-SS-I-522	<LOD	<LOD	<LOD	39	246
BCSS-SS-I-523	<LOD	<LOD	376	1,031	956
BCSS-SS-I-524	<LOD	<LOD	309	1,295	1,016
BCSS-SS-I-525	<LOD	<LOD	<LOD	24	126
BCSS-SS-I-526	<LOD	<LOD	585	1,616	878
BCSS-SS-I-527	<LOD	<LOD	623	1,604	951
BCSS-SS-I-528	<LOD	<LOD	110	630	492
BCSS-SS-I-529	<LOD	<LOD	303	808	811
BCSS-SS-I-530	<LOD	<LOD	46	87	460
BCSS-SS-I-531	<LOD	<LOD	582	1,760	956
BCSS-SS-I-532	<LOD	<LOD	252	818	863
BCSS-SS-I-533	<LOD	<LOD	42	71	93
BCSS-SS-I-534	<LOD	<LOD	320	828	823
BCSS-SS-I-535	<LOD	<LOD	51	80	137
BCSS-SS-I-536	<LOD	<LOD	426	1,070	867
BCSS-SS-I-537	<LOD	<LOD	491	1,251	1,471
BCSS-SS-I-538	<LOD	<LOD	<LOD	39	126
BCSS-SS-I-539	<LOD	<LOD	<LOD	60	93
BCSS-SS-I-540	<LOD	<LOD	526	1,736	740

TABLE 1: IN SITU ANALYTICAL RESULTS

Sample Name	As (mg/kg)	Cd (mg/kg)	Cu (mg/kg)	Pb (mg/kg)	Zn (mg/kg)
BCSS-SS-I-541	59	<LOD	51	328	319
BCSS-SS-I-542	<LOD	<LOD	<LOD	74	139
BCSS-SS-I-543	<LOD	<LOD	353	1,184	885
BCSS-SS-I-544	<LOD	<LOD	128	532	695
BCSS-SS-I-545	<LOD	<LOD	375	1,137	878
BCSS-SS-I-546	<LOD	<LOD	246	1,192	619
BCSS-SS-I-547	<LOD	<LOD	403	1,254	863
BCSS-SS-I-548	<LOD	<LOD	318	1,239	997
BCSS-SS-I-549	<LOD	<LOD	540	1,575	725
BCSS-SS-I-550	<LOD	<LOD	<LOD	70	147
BCSS-SS-I-551	<LOD	<LOD	43	89	341
BCSS-SS-I-552	<LOD	<LOD	384	2,005	535
BCSS-SS-I-553	<LOD	<LOD	<LOD	47	143
BCSS-SS-I-554	<LOD	<LOD	<LOD	101	166
BCSS-SS-I-555	<LOD	<LOD	572	2,541	1,238
BCSS-SS-I-556	<LOD	<LOD	409	1,634	594
BCSS-SS-I-557	<LOD	<LOD	1,033	3,231	1,290
BCSS-SS-I-558	<LOD	<LOD	<LOD	58	171
BCSS-SS-I-559	<LOD	<LOD	<LOD	166	411
BCSS-SS-I-560	<LOD	<LOD	499	1,698	876
BCSS-SS-I-561	<LOD	<LOD	497	1,399	903
BCSS-SS-I-562	<LOD	<LOD	47	192	445
BCSS-SS-I-563	<LOD	<LOD	553	1,815	803
BCSS-SS-I-564	<LOD	<LOD	107	437	353
BCSS-SS-I-565	<LOD	<LOD	863	2,504	1,305
CCSS-SS-I-001	<LOD	<LOD	950	3,400	751
CCSS-SS-I-002	<LOD	<LOD	484	818	390
CCSS-SS-I-003	<LOD	<LOD	1,889	5,186	1,347
CCSS-SS-I-004	127	<LOD	615	1,353	434
CCSS-SS-I-005	<LOD	<LOD	1,613	5,033	832
CCSS-SS-I-006	<LOD	<LOD	1,406	3,031	1,042
CCSS-SS-I-007	<LOD	<LOD	972	3,664	543
CCSS-SS-I-008	<LOD	<LOD	1,032	3,862	651
CCSS-SS-I-009	<LOD	<LOD	319	707	361
CCSS-SS-I-010	<LOD	<LOD	85	330	323
CCSS-SS-I-011	28	<LOD	76	144	284
CCSS-SS-I-012	32	<LOD	103	192	158
CCSS-SS-I-013	<LOD	<LOD	755	3,495	438
CCSS-SS-I-014	83	<LOD	434	699	351
CCSS-SS-I-015	<LOD	<LOD	187	454	105
CCSS-SS-I-016	<LOD	<LOD	104	159	118
CCSS-SS-I-017	<LOD	<LOD	1,258	4,803	698
CCSS-SS-I-018	<LOD	<LOD	3,195	6,752	1,524
CCSS-SS-I-019	<LOD	<LOD	146	494	295
CCSS-SS-I-020	35	<LOD	117	191	475

TABLE 1: IN SITU ANALYTICAL RESULTS

Sample Name	As (mg/kg)	Cd (mg/kg)	Cu (mg/kg)	Pb (mg/kg)	Zn (mg/kg)
CCSS-SS-I-021	<LOD	<LOD	86	209	370
CCSS-SS-I-022	<LOD	<LOD	3,214	7,099	2,229
CCSS-SS-I-023	<LOD	<LOD	64	159	237
CCSS-SS-I-024	<LOD	<LOD	1,712	7,582	2,272
CCSS-SS-I-025	<LOD	<LOD	68	156	276
CCSS-SS-I-026	335	<LOD	7,720	3,948	486
CCSS-SS-I-027	<LOD	<LOD	98	322	330
CCSS-SS-I-028	<LOD	<LOD	2,900	7,663	2,131
CCSS-SS-I-029	<LOD	<LOD	67	301	458
CCSS-SS-I-030	<LOD	<LOD	73	240	696
CCSS-SS-I-031	<LOD	<LOD	89	238	497
CCSS-SS-I-032	<LOD	<LOD	1,237	4,243	503
CCSS-SS-I-033	<LOD	<LOD	548	2,010	400
CCSS-SS-I-034	31	<LOD	79	290	332
CCSS-SS-I-035	<LOD	<LOD	2,006	6,642	655
CCSS-SS-I-036	<LOD	<LOD	51	172	357
CCSS-SS-I-037	43	<LOD	165	382	724
CCSS-SS-I-038	<LOD	<LOD	2,723	9,893	2,265
CCSS-SS-I-039	49	<LOD	151	398	500
CCSS-SS-I-040	<LOD	<LOD	<LOD	152	276
CCSS-SS-I-041	<LOD	<LOD	1,285	3,022	1,548
CCSS-SS-I-042	<LOD	<LOD	1,573	4,418	1,318
CCSS-SS-I-043	33	<LOD	92	250	487
CCSS-SS-I-044	<LOD	<LOD	1,346	2,700	1,060
CCSS-SS-I-045	<LOD	<LOD	302	919	375
CCSS-SS-I-046	52	<LOD	183	654	523
CCSS-SS-I-047	<LOD	<LOD	53	218	433
CCSS-SS-I-048	<LOD	<LOD	81	320	482
CCSS-SS-I-049	166	<LOD	1,284	5,244	802
CCSS-SS-I-050	<LOD	<LOD	<LOD	108	356
CCSS-SS-I-051	<LOD	<LOD	52	164	337
CCSS-SS-I-052	<LOD	<LOD	1,784	4,714	1,285
CCSS-SS-I-053	<LOD	<LOD	<LOD	103	332
CCSS-SS-I-054	<LOD	<LOD	1,361	3,860	1,187
CCSS-SS-I-055	<LOD	<LOD	2,030	3,338	1,027
CCSS-SS-I-056	<LOD	<LOD	37	254	552
CCSS-SS-I-057	<LOD	<LOD	812	6,539	547
CCSS-SS-I-058	<LOD	<LOD	42	162	382
CCSS-SS-I-059	<LOD	<LOD	1,462	4,219	1,123
CCSS-SS-I-060	<LOD	<LOD	<LOD	154	340
CCSS-SS-I-061	<LOD	<LOD	2,167	7,129	732
CCSS-SS-I-062	<LOD	<LOD	116	286	454
CCSS-SS-I-063	153	<LOD	356	3,341	1,615
CCSS-SS-I-064	209	<LOD	274	7,708	2,492
CCSS-SS-I-065	<LOD	<LOD	151	1,997	1,017

TABLE 1: IN SITU ANALYTICAL RESULTS

Sample Name	As (mg/kg)	Cd (mg/kg)	Cu (mg/kg)	Pb (mg/kg)	Zn (mg/kg)
CCSS-SS-I-066	<LOD	<LOD	1,478	5,085	633
CCSS-SS-I-067	<LOD	<LOD	83	176	749
CCSS-SS-I-068	<LOD	<LOD	1,755	5,293	1,119
CCSS-SS-I-069	<LOD	<LOD	297	614	670
CCSS-SS-I-070	<LOD	<LOD	744	2,621	673
CCSS-SS-I-071	<LOD	<LOD	77	273	509
CCSS-SS-I-072	<LOD	<LOD	98	207	465
CCSS-SS-I-073	<LOD	<LOD	364	643	293
CCSS-SS-I-074	<LOD	<LOD	168	311	293
CCSS-SS-I-075	<LOD	<LOD	1,191	3,688	535
CCSS-SS-I-076	68	<LOD	541	1,138	601
CCSS-SS-I-077	<LOD	<LOD	99	300	472
CCSS-SS-I-078	<LOD	<LOD	848	1,500	2,260
CCSS-SS-I-079	<LOD	<LOD	918	1,905	970
CCSS-SS-I-080	<LOD	<LOD	1,274	4,120	938
CCSS-SS-I-081	95	<LOD	1,353	2,697	480
CCSS-SS-I-082	31	<LOD	<LOD	78	236
CCSS-SS-I-083	<LOD	<LOD	150	1,965	1,181
CCSS-SS-I-084	<LOD	<LOD	1,223	3,822	747
CCSS-SS-I-085	<LOD	<LOD	<LOD	128	248
CCSS-SS-I-086	<LOD	<LOD	118	1,226	469
CCSS-SS-I-087	80	<LOD	125	804	936
CCSS-SS-I-088	47	<LOD	<LOD	104	253
CCSS-SS-I-089	<LOD	<LOD	1,660	5,306	1,645
CCSS-SS-I-090	76	<LOD	424	1,553	872
CCSS-SS-I-091	54	<LOD	118	249	488
CCSS-SS-I-092	<LOD	<LOD	115	1,094	597
CCSS-SS-I-093	<LOD	<LOD	834	2,885	445
CCSS-SS-I-094	<LOD	<LOD	136	779	429
CCSS-SS-I-095	<LOD	<LOD	48	66	166
CCSS-SS-I-096	<LOD	<LOD	381	563	345
CCSS-SS-I-097	<LOD	<LOD	60	152	215
CCSS-SS-I-098	<LOD	<LOD	761	1,901	1,356
CCSS-SS-I-099	<LOD	<LOD	393	961	520
CCSS-SS-I-100	<LOD	<LOD	77	113	266
CCSS-SS-I-101	<LOD	<LOD	558	2,284	771
CCSS-SS-I-102	<LOD	<LOD	48	120	226
CCSS-SS-I-103	<LOD	<LOD	3,015	7,574	1,998
CCSS-SS-I-104	<LOD	<LOD	184	599	508
CCSS-SS-I-105	<LOD	<LOD	752	2,112	2,047
CCSS-SS-I-106	102	<LOD	274	806	727
CCSS-SS-I-107	<LOD	<LOD	460	1,150	555
CCSS-SS-I-108	<LOD	<LOD	65	274	339
CCSS-SS-I-109	<LOD	<LOD	504	1,536	697
CCSS-SS-I-110	<LOD	<LOD	168	460	463

TABLE 1: IN SITU ANALYTICAL RESULTS

Sample Name	As (mg/kg)	Cd (mg/kg)	Cu (mg/kg)	Pb (mg/kg)	Zn (mg/kg)
CCSS-SS-I-111	<LOD	<LOD	142	411	512
CCSS-SS-I-112	<LOD	<LOD	90	213	263
CCSS-SS-I-113	<LOD	<LOD	1,930	5,386	1,766
CCSS-SS-I-114	<LOD	<LOD	142	350	390
CCSS-SS-I-115	138	<LOD	1,539	3,258	930
CCSS-SS-I-116	<LOD	<LOD	97	245	382
CCSS-SS-I-117	<LOD	<LOD	1,506	2,238	1,312
CCSS-SS-I-118	<LOD	<LOD	900	3,222	1,554
CCSS-SS-I-119	<LOD	<LOD	60	139	305
CCSS-SS-I-120	<LOD	<LOD	331	1,233	751
CCSS-SS-I-121	<LOD	<LOD	64	144	237
CCSS-SS-I-122	196	<LOD	1,353	3,451	613
CCSS-SS-I-123	36	<LOD	83	179	233
CCSS-SS-I-124	<LOD	<LOD	1,699	4,025	1,630
CCSS-SS-I-125	<LOD	<LOD	2,075	5,721	1,557
CCSS-SS-I-126	<LOD	<LOD	59	166	395
CCSS-SS-I-127	<LOD	<LOD	1,143	2,963	1,055
CCSS-SS-I-128	<LOD	<LOD	62	234	223
CCSS-SS-I-129	<LOD	<LOD	866	3,199	524
CCSS-SS-I-130	<LOD	<LOD	651	1,487	1,247
CCSS-SS-I-131	<LOD	<LOD	126	687	524
CCSS-SS-I-132	39	<LOD	76	269	299
CCSS-SS-I-133	<LOD	<LOD	803	3,349	471
CCSS-SS-I-134	<LOD	<LOD	<LOD	93	215
CCSS-SS-I-135	<LOD	<LOD	1,866	5,053	2,251
CCSS-SS-I-136	<LOD	<LOD	1,509	4,405	1,019
CCSS-SS-I-137	<LOD	<LOD	<LOD	354	329
CCSS-SS-I-138	<LOD	<LOD	513	3,876	702
CCSS-SS-I-139	<LOD	<LOD	53	251	375
CCSS-SS-I-140	41	<LOD	68	195	520
CCSS-SS-I-141	<LOD	<LOD	1,576	5,705	1,151
CCSS-SS-I-142	113	<LOD	328	1,960	571
CCSS-SS-I-143	<LOD	<LOD	1,240	4,457	1,343
CCSS-SS-I-144	<LOD	<LOD	91	442	601
CCSS-SS-I-145	<LOD	<LOD	1,496	4,274	1,755
CCSS-SS-I-146	<LOD	<LOD	<LOD	34	76
CCSS-SS-I-147	<LOD	<LOD	2,385	6,756	2,071
CCSS-SS-I-148	<LOD	<LOD	3,007	5,232	1,694
CCSS-SS-I-149	<LOD	<LOD	2,108	7,718	919
CCSS-SS-I-150	87	<LOD	119	1,217	1,128
CCSS-SS-I-151	48	<LOD	79	156	175
CCSS-SS-I-152	<LOD	<LOD	1,892	8,116	661
CCSS-SS-I-153	<LOD	<LOD	87	319	436
CCSS-SS-I-154	<LOD	<LOD	<LOD	150	405
CCSS-SS-I-155	<LOD	<LOD	45	102	248

TABLE 1: IN SITU ANALYTICAL RESULTS

Sample Name	As (mg/kg)	Cd (mg/kg)	Cu (mg/kg)	Pb (mg/kg)	Zn (mg/kg)
CCSS-SS-I-156	32	<LOD	43	129	278
CCSS-SS-I-157	<LOD	<LOD	1,309	3,714	806
CCSS-SS-I-158	37	<LOD	41	102	272
CCSS-SS-I-159	34	<LOD	211	324	299
CCSS-SS-I-160	<LOD	<LOD	55	146	309
CCSS-SS-I-161	<LOD	<LOD	94	182	321
CCSS-SS-I-162	<LOD	<LOD	2,013	7,189	1,122
CCSS-SS-I-163	<LOD	<LOD	173	482	530
CCSS-SS-I-164	<LOD	<LOD	802	2,146	502
CCSS-SS-I-165	<LOD	<LOD	887	1,588	373
CCSS-SS-I-166	<LOD	<LOD	1,008	3,019	531
CCSS-SS-I-167	<LOD	<LOD	83	100	270
CCSS-SS-I-168	33	<LOD	145	188	148
CCSS-SS-I-169	109	<LOD	1,329	2,746	1,436
CCSS-SS-I-170	<LOD	<LOD	132	283	334
CCSS-SS-I-171	<LOD	<LOD	148	254	204
CCSS-SS-I-172	<LOD	<LOD	313	643	199
CCSS-SS-I-173	<LOD	<LOD	293	323	374
CCSS-SS-I-174	<LOD	<LOD	2,704	6,406	1,240
CCSS-SS-I-175	<LOD	<LOD	196	359	292
CCSS-SS-I-176	<LOD	<LOD	1,381	4,075	1,130
CCSS-SS-I-177	<LOD	<LOD	153	1,056	581
CCSS-SS-I-178	<LOD	<LOD	1,305	3,090	1,144
CCSS-SS-I-179	<LOD	<LOD	450	953	561
CCSS-SS-I-180	<LOD	<LOD	1,205	3,928	1,334
CCSS-SS-I-181	316	<LOD	319	3,482	1,347
CCSS-SS-I-182	<LOD	<LOD	<LOD	114	227
CCSS-SS-I-183	<LOD	<LOD	1,932	5,112	1,167
CCSS-SS-I-184	1065	<LOD	102	18,501	5,520
CCSS-SS-I-185	155	<LOD	1,682	3,366	791
CCSS-SS-I-186	<LOD	<LOD	2,087	7,039	1,186
CCSS-SS-I-187	<LOD	<LOD	1,857	4,921	1,291
CCSS-SS-I-188	<LOD	<LOD	2,019	9,597	1,544
CCSS-SS-I-189	<LOD	<LOD	526	1,518	360
CCSS-SS-I-190	<LOD	<LOD	53	191	401
CCSS-SS-I-191	<LOD	<LOD	2,729	5,937	1,391
CCSS-SS-I-192	374	84	2,324	9,887	4,052
CCSS-SS-I-193	<LOD	<LOD	616	1,692	549
CCSS-SS-I-194	277	<LOD	151	5,273	1,765
CCSS-SS-I-195	<LOD	<LOD	1,646	4,898	1,267
CCSS-SS-I-196	<LOD	<LOD	956	5,015	762
CCSS-SS-I-197	<LOD	<LOD	1,056	3,053	967
CCSS-SS-I-198	35	<LOD	67	203	208
CCSS-SS-I-199	<LOD	<LOD	1,512	3,709	735
CCSS-SS-I-200	<LOD	<LOD	62	586	1,209

TABLE 1: IN SITU ANALYTICAL RESULTS

Sample Name	As (mg/kg)	Cd (mg/kg)	Cu (mg/kg)	Pb (mg/kg)	Zn (mg/kg)
CCSS-SS-I-201	56	<LOD	46	316	373
CCSS-SS-I-202	<LOD	<LOD	1,440	3,219	1,293
CCSS-SS-I-203	<LOD	<LOD	2,004	4,095	1,213
CCSS-SS-I-204	52	<LOD	130	755	475
CCSS-SS-I-205	41	<LOD	73	225	249
CCSS-SS-I-206	<LOD	<LOD	1,292	3,466	1,448
CCSS-SS-I-207	<LOD	<LOD	45	139	528
CCSS-SS-I-208	<LOD	<LOD	107	742	1,073
CCSS-SS-I-209	<LOD	<LOD	<LOD	453	427
CCSS-SS-I-210	<LOD	<LOD	43	111	237
CCSS-SS-I-211	<LOD	<LOD	1,259	3,133	1,490
CCSS-SS-I-212	<LOD	<LOD	2,153	6,681	1,398
CCSS-SS-I-213	131	<LOD	1,282	2,984	1,414
CCSS-SS-I-214	<LOD	<LOD	195	904	521
CCSS-SS-I-215	<LOD	<LOD	1,441	3,242	1,353
CCSS-SS-I-216	<LOD	<LOD	1,289	4,974	514
CCSS-SS-I-217	<LOD	<LOD	129	690	448
CCSS-SS-I-218	<LOD	<LOD	1,427	3,897	1,149
CCSS-SS-I-219	76	<LOD	123	621	623
CCSS-SS-I-220	37	<LOD	88	125	641
CCSS-SS-I-221	35	<LOD	<LOD	143	523
CCSS-SS-I-222	39	<LOD	46	205	252
CCSS-SS-I-223	<LOD	<LOD	1,915	5,630	1,530
CCSS-SS-I-224	<LOD	<LOD	1,498	4,872	739
CCSS-SS-I-225	63	<LOD	61	199	237
CCSS-SS-I-226	<LOD	<LOD	1,091	4,896	498
CCSS-SS-I-227	35	<LOD	53	296	321
CCSS-SS-I-228	<LOD	<LOD	1,566	4,772	1,498
CCSS-SS-I-229	<LOD	<LOD	1,735	4,143	1,602
CCSS-SS-I-230	54	<LOD	86	183	266
CCSS-SS-I-231	<LOD	<LOD	1,718	4,304	1,222
CCSS-SS-I-232	<LOD	<LOD	1,849	5,279	1,457
CCSS-SS-I-233	<LOD	<LOD	63	151	236
CCSS-SS-I-234	<LOD	<LOD	1,333	3,851	713
CCSS-SS-I-235	<LOD	<LOD	72	127	246
CCSS-SS-I-236	<LOD	<LOD	726	2,706	837
CCSS-SS-I-237	<LOD	<LOD	54	207	268
CCSS-SS-I-238	51	<LOD	83	375	346
CCSS-SS-I-239	<LOD	<LOD	1,139	3,835	559
CCSS-SS-I-240	<LOD	<LOD	1,037	3,941	616
CCSS-SS-I-241	<LOD	<LOD	<LOD	123	310
CCSS-SS-I-242	<LOD	<LOD	1,935	4,633	1,489
CCSS-SS-I-243	<LOD	<LOD	1,891	5,419	1,729
CCSS-SS-I-244	<LOD	<LOD	68	419	258
CCSS-SS-I-245	<LOD	<LOD	1,897	5,612	1,598

TABLE 1: IN SITU ANALYTICAL RESULTS

Sample Name	As (mg/kg)	Cd (mg/kg)	Cu (mg/kg)	Pb (mg/kg)	Zn (mg/kg)
CCSS-SS-I-246	<LOD	<LOD	883	3,998	515
CCSS-SS-I-247	31	<LOD	<LOD	220	322
CCSS-SS-I-248	<LOD	<LOD	<LOD	230	689
CCSS-SS-I-249	<LOD	<LOD	2,068	5,295	1,417
CCSS-SS-I-250	<LOD	<LOD	1,287	3,774	1,142
CCSS-SS-I-251	<LOD	<LOD	1,410	3,711	1,044
CCSS-SS-I-252	52	<LOD	169	568	386
CCSS-SS-I-253	<LOD	<LOD	1,712	4,531	2,443
CCSS-SS-I-254	<LOD	<LOD	1,161	4,863	880
CCSS-SS-I-255	<LOD	<LOD	4,469	19,764	1,073
CCSS-SS-I-256	<LOD	<LOD	1,520	2,831	672
CCSS-SS-I-257	<LOD	<LOD	55	144	251
CCSS-SS-I-258	<LOD	<LOD	528	2,141	2,481
CCSS-SS-I-259	<LOD	<LOD	368	914	1,364
CCSS-SS-I-260	54	<LOD	136	618	955
CCSS-SS-I-261	<LOD	<LOD	1,492	3,269	1,278
MGSS-SS-I-001	<LOD	<LOD	76	114	388
MGSS-SS-I-002	<LOD	<LOD	206	2,704	575
MGSS-SS-I-003	<LOD	<LOD	108	324	655
MGSS-SS-I-004	<LOD	<LOD	305	464	585
MGSS-SS-I-005	<LOD	<LOD	177	229	410
MGSS-SS-I-006	<LOD	<LOD	111	156	222
MGSS-SS-I-007	<LOD	<LOD	93	234	306
MGSS-SS-I-008	<LOD	<LOD	541	223	559
MGSS-SS-I-009	<LOD	<LOD	232	368	945
MGSS-SS-I-010	<LOD	<LOD	203	338	1,829
MGSS-SS-I-011	<LOD	<LOD	75	87	407
MGSS-SS-I-012	<LOD	<LOD	81	<LOD	53
MGSS-SS-I-013	<LOD	<LOD	494	377	907
MGSS-SS-I-014	<LOD	<LOD	335	255	425
MGSS-SS-I-015	<LOD	<LOD	192	81	215
MGSS-SS-I-016	158	<LOD	171	1,381	176
MGSS-SS-I-017	530	<LOD	581	6,804	2,767
MGSS-SS-I-018	<LOD	<LOD	98	55	652
MGSS-SS-I-019	132	<LOD	94	1,470	254
MGSS-SS-I-020	<LOD	<LOD	536	176	360
MGSS-SS-I-021	<LOD	<LOD	364	306	446
MGSS-SS-I-022	<LOD	<LOD	210	145	927
MGSS-SS-I-023	<LOD	<LOD	186	194	370
MGSS-SS-I-024	<LOD	<LOD	288	206	964
MGSS-SS-I-025	<LOD	<LOD	85	103	305
MGSS-SS-I-026	<LOD	<LOD	287	738	891
MGSS-SS-I-027	<LOD	<LOD	115	1,523	440
MGSS-SS-I-028	<LOD	<LOD	50	1,829	444
MGSS-SS-I-029	<LOD	<LOD	197	610	660

TABLE 1: IN SITU ANALYTICAL RESULTS

Sample Name	As (mg/kg)	Cd (mg/kg)	Cu (mg/kg)	Pb (mg/kg)	Zn (mg/kg)
MGSS-SS-I-030	224	<LOD	254	2,994	834
MGSS-SS-I-031	<LOD	<LOD	149	47	130
MGSS-SS-I-032	<LOD	<LOD	92	100	343
MGSS-SS-I-033	<LOD	<LOD	180	226	452
MGSS-SS-I-034	<LOD	<LOD	244	388	1,290
MGSS-SS-I-035	<LOD	<LOD	445	421	1,053
MGSS-SS-I-036	33	<LOD	50	145	161
MGSS-SS-I-037	<LOD	<LOD	<LOD	181	122
MGSS-SS-I-038	<LOD	<LOD	157	163	223
MGSS-SS-I-039	<LOD	<LOD	58	115	117
MGSS-SS-I-040	<LOD	<LOD	910	453	1,923
MGSS-SS-I-041	<LOD	<LOD	66	186	242
MGSS-SS-I-042	<LOD	<LOD	51	258	398
MGSS-SS-I-043	<LOD	<LOD	563	300	831
MGSS-SS-I-044	<LOD	<LOD	120	220	260
MGSS-SS-I-045	28	<LOD	46	203	135
MGSS-SS-I-046	<LOD	<LOD	275	302	635
MGSS-SS-I-047	<LOD	<LOD	538	276	1,169
MGSS-SS-I-048	<LOD	<LOD	47	228	138
MGSS-SS-I-049	<LOD	<LOD	99	175	275
MGSS-SS-I-050	<LOD	<LOD	142	800	311
MGSS-SS-I-051	<LOD	<LOD	285	199	769
MGSS-SS-I-052	32	<LOD	91	268	278
MGSS-SS-I-053	<LOD	<LOD	202	547	366
MGSS-SS-I-054	<LOD	<LOD	82	452	155
MGSS-SS-I-055	<LOD	<LOD	147	507	428
MGSS-SS-I-056	<LOD	<LOD	236	1,166	254
MGSS-SS-I-057	<LOD	<LOD	83	142	630
MGSS-SS-I-058	<LOD	<LOD	544	201	963
MGSS-SS-I-059	38	<LOD	301	469	614
MGSS-SS-I-060	193	<LOD	583	1,974	641
MGSS-SS-I-061	<LOD	<LOD	193	168	595
MGSS-SS-I-062	<LOD	<LOD	146	169	247
MGSS-SS-I-063	<LOD	<LOD	192	305	601
MGSS-SS-I-064	78	<LOD	303	829	509
MGSS-SS-I-065	<LOD	<LOD	110	249	256
MGSS-SS-I-066	<LOD	<LOD	134	240	235
MGSS-SS-I-067	<LOD	<LOD	178	202	525
MGSS-SS-I-068	<LOD	<LOD	103	214	510
MGSS-SS-I-069	<LOD	<LOD	113	104	399
MGSS-SS-I-070	24	<LOD	149	123	451
MGSS-SS-I-071	<LOD	<LOD	289	270	722
MGSS-SS-I-072	<LOD	<LOD	75	343	367
MGSS-SS-I-073	<LOD	<LOD	103	202	316
MGSS-SS-I-074	<LOD	<LOD	70	73	116

TABLE 1: IN SITU ANALYTICAL RESULTS

Sample Name	As (mg/kg)	Cd (mg/kg)	Cu (mg/kg)	Pb (mg/kg)	Zn (mg/kg)
MGSS-SS-I-075	<LOD	<LOD	163	143	415
MGSS-SS-I-076	<LOD	<LOD	119	2,166	2,190
MGSS-SS-I-077	120	<LOD	92	3,896	1,171
MGSS-SS-I-078	<LOD	<LOD	781	756	339
MGSS-SS-I-079	<LOD	<LOD	<LOD	154	186
NSSS-SS-I-001	690	<LOD	153	8,422	14,144
NSSS-SS-I-002	150	<LOD	85	3,746	4,900
NSSS-SS-I-003	194	155	151	6,770	35,022
NSSS-SS-I-004	<LOD	<LOD	170	8,604	10,285
NSSS-SS-I-005	342	<LOD	57	3,264	6,141
NSSS-SS-I-006	<LOD	<LOD	65	3,522	6,514
NSSS-SS-I-007	<LOD	<LOD	56	4,679	1,711
NSSS-SS-I-008	<LOD	<LOD	58	4,137	3,508
NSSS-SS-I-009	<LOD	<LOD	89	7,279	13,328
NSSS-SS-I-010	<LOD	<LOD	70	3,590	3,256
NSSS-SS-I-011	133	<LOD	143	3,773	7,318
NSSS-SS-I-012	<LOD	<LOD	<LOD	3,193	8,589
NSSS-SS-I-013	106	<LOD	101	2,738	11,700
NSSS-SS-I-014	<LOD	<LOD	66	3,664	5,667
NSSS-SS-I-015	<LOD	81	65	3,309	7,322
NSSS-SS-I-016	37	<LOD	40	268	489
NSSS-SS-I-017	180	<LOD	<LOD	2,584	9,562
NSSS-SS-I-018	<LOD	<LOD	43	2,438	4,252
NSSS-SS-I-019	134	<LOD	56	2,802	9,641
NSSS-SS-I-020	202	<LOD	166	4,700	2,458
NSSS-SS-I-021	<LOD	<LOD	48	34	104
NSSS-SS-I-022	<LOD	<LOD	<LOD	1,735	3,715
NSSS-SS-I-023	<LOD	<LOD	63	1,878	4,923
NSSS-SS-I-024	175	<LOD	346	1,500	5,675
NSSS-SS-I-025	80	<LOD	39	1,505	2,119
NSSS-SS-I-026	<LOD	<LOD	42	95	350
NSSS-SS-I-027	131	<LOD	61	2,450	1,239
NSSS-SS-I-028	<LOD	<LOD	47	384	837
NSSS-SS-I-029	<LOD	<LOD	188	8,991	1,128
NSSS-SS-I-030	111	<LOD	<LOD	963	482
NSSS-SS-I-031	<LOD	<LOD	<LOD	328	479
NSSS-SS-I-032	<LOD	<LOD	47	752	1,863
NSSS-SS-I-033	96	<LOD	92	1,207	2,075
NSSS-SS-I-034	<LOD	<LOD	43	141	382
NSSS-SS-I-035	<LOD	<LOD	<LOD	1,427	51,752
NSSS-SS-I-036	<LOD	<LOD	64	1,699	6,967
NSSS-SS-I-037	<LOD	<LOD	101	1,617	8,020
NSSS-SS-I-038	<LOD	75	91	3,306	6,263
NSSS-SS-I-039	<LOD	<LOD	45	837	2,103
NSSS-SS-I-040	<LOD	<LOD	66	648	5,594

TABLE 1: IN SITU ANALYTICAL RESULTS

Sample Name	As (mg/kg)	Cd (mg/kg)	Cu (mg/kg)	Pb (mg/kg)	Zn (mg/kg)
NSSS-SS-I-041	<LOD	<LOD	<LOD	26	198
NSSS-SS-I-042	794	<LOD	172	11,640	6,378
NSSS-SS-I-043	<LOD	<LOD	72	1,458	2,409
NSSS-SS-I-044	311	<LOD	73	2,317	1,189
NSSS-SS-I-045	204	<LOD	<LOD	1,332	576
NSSS-SS-I-046	<LOD	<LOD	56	3,315	2,741
NSSS-SS-I-047	147	<LOD	<LOD	2,934	1,788
NSSS-SS-I-048	140	<LOD	<LOD	1,365	1,895
NSSS-SS-I-049	<LOD	<LOD	<LOD	179	471
NSSS-SS-I-050	<LOD	<LOD	<LOD	1,840	2,284
NSSS-SS-I-051	<LOD	<LOD	<LOD	182	385
NSSS-SS-I-052	<LOD	<LOD	<LOD	679	1,346
NSSS-SS-I-053	99	<LOD	<LOD	2,327	1,315
NSSS-SS-I-054	<LOD	<LOD	<LOD	96	365
NSSS-SS-I-055	<LOD	<LOD	<LOD	218	503
NSSS-SS-I-056	166	<LOD	<LOD	2,076	848
NSSS-SS-I-057	<LOD	<LOD	<LOD	329	1,221
NSSS-SS-I-058	197	<LOD	<LOD	3,190	1,201
NSSS-SS-I-059	84	<LOD	<LOD	1,430	2,520
NSSS-SS-I-060	301	<LOD	116	5,757	3,802
NSSS-SS-I-061	163	<LOD	123	2,315	3,989
NSSS-SS-I-062	310	<LOD	105	4,497	2,814
NSSS-SS-I-063	<LOD	<LOD	67	2,365	1,997
NSSS-SS-I-064	181	<LOD	548	3,040	7,205
NSSS-SS-I-065	117	<LOD	88	2,620	1,860
NSSS-SS-I-066	143	<LOD	160	3,086	3,358
NSSS-SS-I-067	182	<LOD	113	2,124	3,796
NSSS-SS-I-068	<LOD	<LOD	113	2,921	2,234
SCSS-SS-I-001	<LOD	<LOD	53	911	620
SCSS-SS-I-002	<LOD	<LOD	45	1,017	658
SCSS-SS-I-003	37	<LOD	129	407	343
SCSS-SS-I-004	<LOD	<LOD	<LOD	93	231
SCSS-SS-I-005	<LOD	<LOD	54	694	581
SCSS-SS-I-006	<LOD	<LOD	<LOD	87	698
SCSS-SS-I-007	<LOD	<LOD	<LOD	638	1,403
SCSS-SS-I-008	<LOD	<LOD	<LOD	148	406
SCSS-SS-I-009	<LOD	<LOD	<LOD	325	1,130
SCSS-SS-I-010	68	<LOD	84	528	4,058
SCSS-SS-I-011	61	<LOD	50	145	452
SCSS-SS-I-012	52	<LOD	76	244	1,330
SCSS-SS-I-013	<LOD	<LOD	183	267	4,006
SCSS-SS-I-014	23	<LOD	<LOD	70	281
SCSS-SS-I-015	28	<LOD	<LOD	121	249
SCSS-SS-I-016	75	<LOD	46	158	455
SCSS-SS-I-017	126	<LOD	88	766	3,337

TABLE 1: IN SITU ANALYTICAL RESULTS

Sample Name	As (mg/kg)	Cd (mg/kg)	Cu (mg/kg)	Pb (mg/kg)	Zn (mg/kg)
SCSS-SS-I-018	29	<LOD	<LOD	110	327
SCSS-SS-I-019	<LOD	<LOD	97	575	3,609
SCSS-SS-I-020	<LOD	<LOD	46	147	424
SCSS-SS-I-021	<LOD	<LOD	<LOD	96	191
SCSS-SS-I-022	219	<LOD	88	2,436	628
SCSS-SS-I-023	37	<LOD	42	216	412
SCSS-SS-I-024	99	<LOD	105	1,802	1,118
SCSS-SS-I-025	73	<LOD	148	1,168	1,312
SCSS-SS-I-026	39	<LOD	<LOD	256	490
SCSS-SS-I-027	104	<LOD	124	984	1,880
SCSS-SS-I-028	38	<LOD	39	136	341
SCSS-SS-I-029	<LOD	<LOD	29	237	1,258
SCSS-SS-I-030	<LOD	<LOD	39	168	260
SCSS-SS-I-031	39	<LOD	<LOD	361	1,088
SCSS-SS-I-032	<LOD	<LOD	<LOD	158	437
SCSS-SS-I-033	388	<LOD	99	2,536	706
SCSS-SS-I-034	16	<LOD	<LOD	70	155
SCSS-SS-I-035	344	<LOD	61	409	1,082
SCSS-SS-I-036	24	<LOD	<LOD	67	237
SCSS-SS-I-037	106	<LOD	76	814	2,369
SCSS-SS-I-038	30	<LOD	<LOD	81	266
SCSS-SS-I-039	48	<LOD	<LOD	108	210
SCSS-SS-I-040	30	<LOD	55	333	1,033
SCSS-SS-I-041	<LOD	<LOD	<LOD	<LOD	237
SCSS-SS-I-042	<LOD	<LOD	115	334	3,752
SCSS-SS-I-043	<LOD	<LOD	<LOD	147	766
SCSS-SS-I-044	90	<LOD	134	1,285	1,492
SCSS-SS-I-045	<LOD	<LOD	<LOD	33	109
SCSS-SS-I-046	13	<LOD	<LOD	41	110
SCSS-SS-I-047	121	<LOD	<LOD	818	862
SCSS-SS-I-048	<LOD	<LOD	<LOD	91	170
SCSS-SS-I-049	<LOD	<LOD	<LOD	103	263
SCSS-SS-I-050	62	<LOD	147	1,308	1,196
SCSS-SS-I-051	<LOD	<LOD	<LOD	87	195
SCSS-SS-I-052	<LOD	<LOD	<LOD	148	270
SCSS-SS-I-053	16	<LOD	<LOD	76	144
SCSS-SS-I-054	362	<LOD	229	8,031	1,739
SCSS-SS-I-055	48	<LOD	54	513	355
SCSS-SS-I-056	96	<LOD	147	1,059	1,784
SCSS-SS-I-057	<LOD	<LOD	78	724	1,517
SCSS-SS-I-058	21	<LOD	<LOD	97	157
SCSS-SS-I-059	<LOD	<LOD	<LOD	96	246
SCSS-SS-I-060	69	<LOD	74	720	823
SCSS-SS-I-061	23	<LOD	<LOD	112	262
SCSS-SS-I-062	<LOD	<LOD	97	754	1,855

TABLE 1: IN SITU ANALYTICAL RESULTS

Sample Name	As (mg/kg)	Cd (mg/kg)	Cu (mg/kg)	Pb (mg/kg)	Zn (mg/kg)
SCSS-SS-I-063	<LOD	<LOD	<LOD	19	67
SCSS-SS-I-064	<LOD	<LOD	<LOD	73	261
SCSS-SS-I-065	233	<LOD	<LOD	870	1,484
SCSS-SS-I-066	22	<LOD	<LOD	92	176
SCSS-SS-I-067	112	<LOD	188	1,680	1,980
SCSS-SS-I-068	<LOD	<LOD	<LOD	50	170
SCSS-SS-I-069	41	<LOD	53	389	1,444
SCSS-SS-I-070	16	<LOD	<LOD	80	211
SCSS-SS-I-071	<LOD	<LOD	69	855	1,506
SCSS-SS-I-072	<LOD	<LOD	<LOD	27	103
SCSS-SS-I-073	34	<LOD	<LOD	85	165
SCSS-SS-I-074	<LOD	<LOD	68	212	1,224
SCSS-SS-I-075	<LOD	<LOD	98	624	1,354
SCSS-SS-I-075	<LOD	<LOD	<LOD	653	1,318
SCSS-SS-I-076	<LOD	<LOD	115	1,237	1,047
SCSS-SS-I-077	<LOD	<LOD	903	4,084	525
SCSS-SS-I-078	<LOD	<LOD	37	214	789
SCSS-SS-I-079	<LOD	<LOD	42	109	488
SCSS-SS-I-080	62	<LOD	120	565	3,428
SCSS-SS-I-081	113	<LOD	67	727	2,236
SCSS-SS-I-082	<LOD	<LOD	<LOD	97	177
SCSS-SS-I-083	<LOD	<LOD	29	111	1,795
SCSS-SS-I-084	38	<LOD	50	136	281
SCSS-SS-I-085	<LOD	<LOD	<LOD	70	197
SCSS-SS-I-086	35	<LOD	<LOD	147	678
SCSS-SS-I-087	59	<LOD	119	568	2,608
SCSS-SS-I-088	24	<LOD	48	62	241
SCSS-SS-I-089	<LOD	<LOD	57	501	1,326
SCSS-SS-I-090	<LOD	<LOD	40	155	1,023
SCSS-SS-I-091	<LOD	<LOD	41	83	297
SCSS-SS-I-092	36	54	121	482	4,296
SCSS-SS-I-093	<LOD	<LOD	39	159	286
SCSS-SS-I-094	<LOD	<LOD	52	106	313
SCSS-SS-I-095	57	<LOD	76	284	956
SCSS-SS-I-096	<LOD	<LOD	40	83	220
SCSS-SS-I-097	<LOD	<LOD	<LOD	45	598
SCSS-SS-I-098	71	<LOD	79	655	3,117
SCSS-SS-I-099	<LOD	<LOD	96	84	146
SCSS-SS-I-100	<LOD	<LOD	<LOD	317	737
SCSS-SS-I-101	<LOD	<LOD	36	53	47
SCSS-SS-I-102	<LOD	<LOD	<LOD	52	50
SCSS-SS-I-103	56	<LOD	123	1,005	1,368
SCSS-SS-I-104	<LOD	<LOD	81	183	334
SCSS-SS-I-105	<LOD	<LOD	<LOD	89	1,370
SCSS-SS-I-106	<LOD	<LOD	<LOD	99	297

TABLE 1: IN SITU ANALYTICAL RESULTS

Sample Name	As (mg/kg)	Cd (mg/kg)	Cu (mg/kg)	Pb (mg/kg)	Zn (mg/kg)
SCSS-SS-I-107	<LOD	<LOD	83	342	2,158
SCSS-SS-I-108	<LOD	<LOD	<LOD	116	274
SCSS-SS-I-109	<LOD	<LOD	<LOD	117	390
SCSS-SS-I-110	<LOD	<LOD	<LOD	295	949
SCSS-SS-I-111	90	<LOD	113	979	2,082
SCSS-SS-I-112	18	<LOD	<LOD	54	293
SCSS-SS-I-113	23	<LOD	45	227	886
SCSS-SS-I-114	<LOD	<LOD	<LOD	55	137
SCSS-SS-I-115	47	<LOD	135	651	3,828
SCSS-SS-I-116	195	<LOD	236	1,288	3,700
SCSS-SS-I-117	83	<LOD	113	1,071	1,292
SCSS-SS-I-118	<LOD	<LOD	61	318	185
SCSS-SS-I-119	<LOD	<LOD	123	346	2,493
SCSS-SS-I-120	79	<LOD	88	595	2,062
SCSS-SS-I-121	<LOD	<LOD	134	408	821
SCSS-SS-I-122	<LOD	<LOD	83	412	488
SCSS-SS-I-123	<LOD	<LOD	159	292	641
SCSS-SS-I-124	<LOD	<LOD	83	773	1,040
SCSS-SS-I-125	<LOD	<LOD	<LOD	293	388
SCSS-SS-I-126	76	<LOD	57	449	1,976
SCSS-SS-I-127	96	<LOD	87	864	1,517
SCSS-SS-I-128	31	<LOD	<LOD	154	207
SCSS-SS-I-129	25	<LOD	<LOD	73	386
SCSS-SS-I-130	44	<LOD	79	390	1,154
SCSS-SS-I-131	<LOD	<LOD	<LOD	42	146
SCSS-SS-I-132	<LOD	<LOD	105	368	3,416
SCSS-SS-I-133	16	<LOD	<LOD	74	237
SCSS-SS-I-134	89	<LOD	220	1,610	2,268
SCSS-SS-I-135	36	<LOD	<LOD	100	270
SCSS-SS-I-136	154	<LOD	143	1,484	1,063
SCSS-SS-I-137	26	<LOD	<LOD	131	277
SCSS-SS-I-138	40	<LOD	66	417	977
SCSS-SS-I-139	<LOD	<LOD	49	131	311
SCSS-SS-I-140	33	<LOD	<LOD	130	425
SCSS-SS-I-141	<LOD	<LOD	<LOD	52	2,660
SCSS-SS-I-142	<LOD	<LOD	<LOD	22	66
SCSS-SS-I-143	<LOD	<LOD	<LOD	209	491
SCSS-SS-I-144	<LOD	<LOD	<LOD	104	153
SCSS-SS-I-145	<LOD	<LOD	49	656	1,350
SCSS-SS-I-146	23	<LOD	<LOD	72	88
SCSS-SS-I-147	<LOD	<LOD	40	134	286
SCSS-SS-I-148	<LOD	<LOD	55	180	650
SCSS-SS-I-149	86	<LOD	82	531	1,644
SCSS-SS-I-150	<LOD	<LOD	69	192	513
SCSS-SS-I-151	128	<LOD	138	1,556	1,527

TABLE 1: IN SITU ANALYTICAL RESULTS

Sample Name	As (mg/kg)	Cd (mg/kg)	Cu (mg/kg)	Pb (mg/kg)	Zn (mg/kg)
SCSS-SS-I-152	<LOD	<LOD	<LOD	91	218
SCSS-SS-I-153	26	<LOD	<LOD	61	278
SCSS-SS-I-154	<LOD	<LOD	625	1,777	3,448
SCSS-SS-I-155	<LOD	<LOD	<LOD	79	245
SCSS-SS-I-156	<LOD	<LOD	<LOD	72	282
SCSS-SS-I-157	<LOD	<LOD	<LOD	66	172
SCSS-SS-I-158	<LOD	<LOD	<LOD	29	160
SCSS-SS-I-159	<LOD	<LOD	<LOD	85	372
SCSS-SS-I-160	14	<LOD	<LOD	75	246
SCSS-SS-I-161	<LOD	<LOD	37	154	250
SCSS-SS-I-162	<LOD	<LOD	<LOD	163	402
SCSS-SS-I-163	<LOD	<LOD	62	161	226
SCSS-SS-I-164	<LOD	<LOD	50	160	100
SCSS-SS-I-165	<LOD	<LOD	<LOD	16	597
SCSS-SS-I-166	<LOD	<LOD	<LOD	127	241
SCSS-SS-I-167	<LOD	<LOD	<LOD	18	128
SCSS-SS-I-168	<LOD	<LOD	<LOD	109	124
SCSS-SS-I-169	<LOD	<LOD	<LOD	43	103
SCSS-SS-I-170	<LOD	<LOD	<LOD	66	313
SCSS-SS-I-171	20	<LOD	35	71	288
SCSS-SS-I-172	<LOD	<LOD	<LOD	102	353
SCSS-SS-I-173	18	<LOD	<LOD	118	920
SCSS-SS-I-174	<LOD	<LOD	178	645	431
SCSS-SS-I-175	<LOD	<LOD	37	119	181
SCSS-SS-I-176	<LOD	<LOD	81	328	574
SCSS-SS-I-177	<LOD	<LOD	<LOD	104	188
SCSS-SS-I-178	<LOD	<LOD	57	103	327
SCSS-SS-I-179	17	<LOD	<LOD	83	392
SCSS-SS-I-180	<LOD	<LOD	<LOD	52	190
SCSS-SS-I-181	18	<LOD	<LOD	73	217
SCSS-SS-I-182	<LOD	<LOD	50	993	210
SCSS-SS-I-183	<LOD	<LOD	<LOD	56	499
SCSS-SS-I-184	33	<LOD	<LOD	33	187
SCSS-SS-I-185	<LOD	<LOD	<LOD	53	146
SCSS-SS-I-186	20	<LOD	<LOD	76	177
SCSS-SS-I-187	<LOD	<LOD	<LOD	57	177
SCSS-SS-I-188	<LOD	<LOD	<LOD	19	131
SCSS-SS-I-189	101	<LOD	76	1,125	330
SCSS-SS-I-190	<LOD	<LOD	<LOD	86	176
SCSS-SS-I-191	<LOD	<LOD	47	119	274
SCSS-SS-I-192	33	<LOD	<LOD	188	362
SCSS-SS-I-193	<LOD	<LOD	<LOD	903	179
SCSS-SS-I-194	<LOD	<LOD	<LOD	52	174
SCSS-SS-I-195	<LOD	<LOD	<LOD	54	440
SCSS-SS-I-196	<LOD	<LOD	<LOD	147	565

TABLE 1: IN SITU ANALYTICAL RESULTS

Sample Name	As (mg/kg)	Cd (mg/kg)	Cu (mg/kg)	Pb (mg/kg)	Zn (mg/kg)
SCSS-SS-I-197	<LOD	<LOD	<LOD	71	188
SCSS-SS-I-198	23	<LOD	40	94	280
SCSS-SS-I-199	<LOD	<LOD	<LOD	40	121
SCSS-SS-I-200	<LOD	<LOD	<LOD	54	151
SCSS-SS-I-201	<LOD	<LOD	<LOD	72	114
SCSS-SS-I-202	<LOD	<LOD	<LOD	<LOD	<LOD
SCSS-SS-I-203	<LOD	<LOD	<LOD	23	69
SCSS-SS-I-204	<LOD	<LOD	<LOD	49	139
SCSS-SS-I-205	<LOD	<LOD	<LOD	62	62
SCSS-SS-I-206	<LOD	<LOD	90	237	241
SCSS-SS-I-207	<LOD	<LOD	<LOD	26	128
SCSS-SS-I-208	<LOD	<LOD	<LOD	105	130
SCSS-SS-I-209	<LOD	<LOD	<LOD	47	98
SCSS-SS-I-210	<LOD	<LOD	<LOD	38	103
SCSS-SS-I-211	<LOD	<LOD	<LOD	46	118
SCSS-SS-I-212	<LOD	<LOD	<LOD	51	115
SCSS-SS-I-213	<LOD	<LOD	<LOD	33	75
SCSS-SS-I-214	<LOD	<LOD	<LOD	110	71
SCSS-SS-I-215	<LOD	<LOD	72	184	1,230
SCSS-SS-I-216	<LOD	<LOD	<LOD	93	315
SCSS-SS-I-217	<LOD	<LOD	37	193	652
SCSS-SS-I-218	<LOD	<LOD	31	139	1,228
SCSS-SS-I-219	<LOD	<LOD	<LOD	285	628
SCSS-SS-I-220	23	<LOD	<LOD	130	393
SCSS-SS-I-221	<LOD	<LOD	41	148	1,270
SCSS-SS-I-222	<LOD	<LOD	<LOD	52	245
SCSS-SS-I-223	<LOD	<LOD	<LOD	48	566
SCSS-SS-I-224	<LOD	<LOD	<LOD	100	614
SCSS-SS-I-225	<LOD	<LOD	<LOD	53	274
SCSS-SS-I-226	<LOD	<LOD	61	281	1,873
SCSS-SS-I-227	<LOD	<LOD	<LOD	198	763
SCSS-SS-I-228	<LOD	<LOD	<LOD	56	384
SCSS-SS-I-229	17	<LOD	<LOD	89	909
SCSS-SS-I-230	19	<LOD	<LOD	63	383
SCSS-SS-I-231	50	<LOD	<LOD	154	726
SCSS-SS-I-232	<LOD	49	49	333	1,239
SCSS-SS-I-233	13	<LOD	<LOD	78	159
SCSS-SS-I-234	<LOD	<LOD	49	512	1,360
SCSS-SS-I-235	<LOD	<LOD	<LOD	124	725
SCSS-SS-I-236	<LOD	<LOD	72	513	1,964
SCSS-SS-I-237	<LOD	<LOD	<LOD	22	249
SCSS-SS-I-238	<LOD	<LOD	<LOD	65	428
SCSS-SS-I-239	<LOD	<LOD	33	57	420
SCSS-SS-I-240	<LOD	<LOD	69	509	1,765
SCSS-SS-I-241	<LOD	<LOD	93	423	2,468

TABLE 1: IN SITU ANALYTICAL RESULTS

Sample Name	**As** (mg/kg)	**Cd** (mg/kg)	**Cu** (mg/kg)	**Pb** (mg/kg)	**Zn** (mg/kg)
SCSS-SS-I-242	<LOD	<LOD	<LOD	523	500
SCSS-SS-I-243	76	<LOD	36	276	378
SCSS-SS-I-244	90	<LOD	<LOD	172	450
SCSS-SS-I-245	162	<LOD	86	813	932
SCSS-SS-I-246	114	<LOD	44	351	445
SCSS-SS-I-247	290	<LOD	81	728	1,950
SCSS-SS-I-248	102	<LOD	66	689	1,252
SCSS-SS-I-249	43	<LOD	<LOD	149	475
SCSS-SS-I-250	32	<LOD	<LOD	377	720
SCSS-SS-I-251	73	<LOD	<LOD	567	850
SCSS-SS-I-252	72	<LOD	51	162	497
SCSS-SS-I-253	92	<LOD	52	712	854
SCSS-SS-I-254	82	<LOD	184	1,253	947
SCSS-SS-I-255	<LOD	<LOD	<LOD	233	402
SCSS-SS-I-256	<LOD	<LOD	85	1,169	676
SCSS-SS-I-257	294	<LOD	124	2,157	1,471
SCSS-SS-I-258	<LOD	<LOD	52	256	441
SCSS-SS-I-259	<LOD	<LOD	38	127	349
SCSS-SS-I-260	89	<LOD	134	979	1,927
SCSS-SS-I-261	<LOD	<LOD	128	514	2,701
SCSS-SS-I-262	<LOD	73	45	276	479
SCSS-SS-I-263	<LOD	<LOD	142	5,339	1,353
SCSS-SS-I-264	<LOD	<LOD	60	1,336	1,875
SCSS-SS-I-265	25	<LOD	<LOD	98	306
SCSS-SS-I-266	<LOD	<LOD	43	95	193
SCSS-SS-I-267	<LOD	<LOD	<LOD	160	247
SCSS-SS-I-268	24	<LOD	80	212	1,429
SCSS-SS-I-269	<LOD	<LOD	<LOD	89	240
SCSS-SS-I-270	87	<LOD	110	608	1,209
SCSS-SS-I-271	<LOD	<LOD	43	100	177
SCSS-SS-I-272	40	<LOD	<LOD	130	323
SCSS-SS-I-273	<LOD	<LOD	88	87	1,490
SCSS-SS-I-274	45	<LOD	74	250	1,127
SCSS-SS-I-275	174	<LOD	56	595	3,278
SCSS-SS-I-276	<LOD	<LOD	<LOD	92	312
SCSS-SS-I-277	28	<LOD	84	169	1,944
SCSS-SS-I-278	<LOD	<LOD	40	67	187
SCSS-SS-I-279	<LOD	<LOD	49	121	263
SCSS-SS-I-280	29	<LOD	<LOD	117	273
SCSS-SS-I-281	93	<LOD	<LOD	331	669
SCSS-SS-I-282	<LOD	<LOD	31	1,024	947
SCSS-SS-I-283	<LOD	<LOD	<LOD	269	1,664
SCSS-SS-I-284	<LOD	<LOD	<LOD	74	244
SCSS-SS-I-285	<LOD	<LOD	46	121	404
SCSS-SS-I-286	32	<LOD	49	232	542

TABLE 1: IN SITU ANALYTICAL RESULTS

Sample Name	As (mg/kg)	Cd (mg/kg)	Cu (mg/kg)	Pb (mg/kg)	Zn (mg/kg)
SCSS-SS-I-287	<LOD	<LOD	45	646	693
SCSS-SS-I-288	<LOD	<LOD	<LOD	49	308
SCSS-SS-I-289	<LOD	<LOD	33	63	209
SCSS-SS-I-290	42	<LOD	55	377	2,486
SCSS-SS-I-291	<LOD	<LOD	<LOD	22	278
SCSS-SS-I-292	<LOD	<LOD	<LOD	93	316
SCSS-SS-I-293	62	58	40	370	1,390
SCSS-SS-I-294	<LOD	<LOD	43	448	2,203
SCSS-SS-I-295	<LOD	<LOD	<LOD	73	463
SCSS-SS-I-296	139	<LOD	171	1,765	1,556
SCSS-SS-I-297	80	<LOD	332	954	4,052
SCSS-SS-I-298	17	<LOD	<LOD	54	143
SCSS-SS-I-299	<LOD	<LOD	<LOD	64	183
SCSS-SS-I-300	<LOD	<LOD	175	880	2,445
SCSS-SS-I-301	<LOD	<LOD	<LOD	61	269
SCSS-SS-I-302	<LOD	<LOD	<LOD	63	173
SCSS-SS-I-303	105	<LOD	425	1,596	3,185
SCSS-SS-I-304	107	<LOD	394	881	3,464
SCSS-SS-I-305	19	<LOD	<LOD	106	211
SCSS-SS-I-306	<LOD	<LOD	<LOD	40	269
SCSS-SS-I-307	<LOD	<LOD	88	589	1,290
SCSS-SS-I-308	<LOD	<LOD	<LOD	59	342
SCSS-SS-I-309	<LOD	<LOD	74	461	540
SCSS-SS-I-310	374	<LOD	107	1,742	635
SCSS-SS-I-311	789	<LOD	<LOD	1,482	351
SCSS-SS-I-312	332	<LOD	120	2,932	962
SCSS-SS-I-313	77	<LOD	62	580	525
SCSS-SS-I-314	334	<LOD	106	1,997	604
SCSS-SS-I-315	<LOD	<LOD	110	2,921	541
SCSS-SS-I-316	<LOD	<LOD	227	3,444	539
SCSS-SS-I-317	252	<LOD	133	1,631	543
SCSS-SS-I-318	338	<LOD	157	3,975	692
SCSS-SS-I-319	93	<LOD	108	1,066	483
SCSS-SS-I-320	125	<LOD	150	2,092	551
SCSS-SS-I-321	24	<LOD	50	156	698
SCSS-SS-I-322	158	<LOD	119	2,490	549
SCSS-SS-I-323	<LOD	<LOD	36	124	441
SCSS-SS-I-324	<LOD	<LOD	<LOD	136	440
SCSS-SS-I-325	<LOD	<LOD	155	3,776	624
SCSS-SS-I-326	229	<LOD	208	2,358	890
SCSS-SS-I-327	<LOD	<LOD	39	197	412
SCSS-SS-I-328	<LOD	<LOD	76	227	823
SCSS-SS-I-329	67	<LOD	57	723	823
SCSS-SS-I-330	108	<LOD	61	1,458	394
SCSS-SS-I-331	65	<LOD	69	723	466

TABLE 1: IN SITU ANALYTICAL RESULTS

Sample Name	As (mg/kg)	Cd (mg/kg)	Cu (mg/kg)	Pb (mg/kg)	Zn (mg/kg)

mg/kg: milligrams per kilogram
BCSS: Belt Creek Streamside Sample
CCSS: Carpenter Creek Streamside Sample
MGSS: McKay Gulch Streamside Sample
NSSS: Neihart Slope Streamside Sample
SCSS: Snow Creek Streamside Sample
SS: Soil Sample
I: In Situ
<LOD: Less than analytical limit of detection

TABLE 2: EX SITU ANALYTICAL RESULTS

Sample Name	As (mg/kg)	Cd (mg/kg)	Cu (mg/kg)	Pb (mg/kg)	Zn (mg/kg)
BCSS-SS-E-004	<LOD	<LOD	<LOD	60	95
BCSS-SS-E-008	<LOD	<LOD	<LOD	184	107
BCSS-SS-E-012	<LOD	<LOD	284	1,457	774
BCSS-SS-E-016	<LOD	<LOD	759	5,550	1336
BCSS-SS-E-020	<LOD	<LOD	1009	2,991	1721
BCSS-SS-E-024	<LOD	<LOD	107	310	323
BCSS-SS-E-028	<LOD	<LOD	<LOD	73	<LOD
BCSS-SS-E-032	<LOD	<LOD	<LOD	38	117
BCSS-SS-E-038	<LOD	<LOD	<LOD	148	123
BCSS-SS-E-042	<LOD	<LOD	50	129	238
BCSS-SS-E-046	<LOD	<LOD	<LOD	75	139
BCSS-SS-E-046DX	<LOD	<LOD	<LOD	95	167
BCSS-SS-E-050	<LOD	<LOD	<LOD	114	183
BCSS-SS-E-054	<LOD	<LOD	38	168	243
BCSS-SS-E-058	<LOD	<LOD	692	2,107	859
BCSS-SS-E-062	<LOD	<LOD	62	238	244
BCSS-SS-E-066	<LOD	<LOD	119	416	306
BCSS-SS-E-070	20	<LOD	50	88	255
BCSS-SS-E-074	<LOD	<LOD	137	513	311
BCSS-SS-E-078	<LOD	<LOD	83	297	261
BCSS-SS-E-082	<LOD	<LOD	57	136	165
BCSS-SS-E-086	<LOD	<LOD	81	746	364
BCSS-SS-E-086D	44	<LOD	86	571	316
BCSS-SS-E-090	<LOD	<LOD	49	236	238
BCSS-SS-E-090DX	<LOD	<LOD	<LOD	216	262
BCSS-SS-E-094	<LOD	<LOD	34	122	193
BCSS-SS-E-098	<LOD	<LOD	47	135	200
BCSS-SS-E-102	24	<LOD	50	141	183
BCSS-SS-E-106	84	<LOD	233	1,601	1141
BCSS-SS-E-110	<LOD	<LOD	53	91	153
BCSS-SS-E-114	<LOD	<LOD	1136	3,271	975
BCSS-SS-E-121	<LOD	<LOD	1454	5,038	1948
BCSS-SS-E-125	<LOD	<LOD	68	1,103	1212
BCSS-SS-E-129	<LOD	<LOD	75	444	396
BCSS-SS-E-129DX	<LOD	<LOD	63	399	391
BCSS-SS-E-133	<LOD	<LOD	138	706	447
BCSS-SS-E-137	<LOD	<LOD	412	1,760	757
BCSS-SS-E-141	<LOD	<LOD	796	2,076	1007
BCSS-SS-E-145	<LOD	<LOD	498	1,478	652
BCSS-SS-E-149	<LOD	<LOD	704	2,258	987
BCSS-SS-E-153	<LOD	<LOD	475	1,495	708
BCSS-SS-E-157	<LOD	<LOD	36	100	108
BCSS-SS-E-161	<LOD	<LOD	87	738	1176
BCSS-SS-E-165	<LOD	<LOD	822	2,170	936
BCSS-SS-E-169	<LOD	<LOD	932	2,309	1676
BCSS-SS-E-169DX	<LOD	<LOD	961	2,369	1655
BCSS-SS-E-173	<LOD	<LOD	527	1,851	746
BCSS-SS-E-177	<LOD	<LOD	296	1,156	959

BCSS-SS-E-181	<LOD	<LOD	1528	4,148	1442
BCSS-SS-E-185	<LOD	<LOD	<LOD	74	113
BCSS-SS-E-189	<LOD	<LOD	<LOD	54	130
BCSS-SS-E-189DX	<LOD	<LOD	<LOD	44	124
BCSS-SS-E-193	<LOD	<LOD	868	2,598	1639
BCSS-SS-E-197	<LOD	<LOD	<LOD	67	164
BCSS-SS-E-201	<LOD	<LOD	432	1,666	510
BCSS-SS-E-201DX	<LOD	<LOD	416	1,604	536
BCSS-SS-E-205	<LOD	<LOD	418	1,509	961
BCSS-SS-E-209	<LOD	<LOD	<LOD	52	133
BCSS-SS-E-213	<LOD	<LOD	460	1,085	742
BCSS-SS-E-217	<LOD	<LOD	1338	3,751	2477
BCSS-SS-E-221	<LOD	<LOD	414	850	965
BCSS-SS-E-225	<LOD	<LOD	48	50	152
BCSS-SS-E-229	<LOD	<LOD	224	993	485
BCSS-SS-E-233	<LOD	<LOD	353	1,800	1064
BCSS-SS-E-237	<LOD	<LOD	475	1,282	991
BCSS-SS-E-241	<LOD	<LOD	53	212	159
BCSS-SS-E-241DX	<LOD	<LOD	55	205	175
BCSS-SS-E-245	<LOD	<LOD	<LOD	70	158
BCSS-SS-E-245D	<LOD	<LOD	<LOD	70	158
BCSS-SS-E-249	<LOD	<LOD	862	3,405	1126
BCSS-SS-E-253	<LOD	<LOD	88	190	216
BCSS-SS-E-258	<LOD	<LOD	644	1,874	801
BCSS-SS-E-262	<LOD	<LOD	51	1,058	839
BCSS-SS-E-266	<LOD	<LOD	375	1,323	521
BCSS-SS-E-270	<LOD	<LOD	381	1,481	725
BCSS-SS-E-274	<LOD	<LOD	1011	2,848	1194
BCSS-SS-E-278	<LOD	<LOD	<LOD	48	77
BCSS-SS-E-282	<LOD	<LOD	507	1,479	883
BCSS-SS-E-286	<LOD	<LOD	279	1,200	781
BCSS-SS-E-286D	<LOD	<LOD	373	1,283	772
BCSS-SS-E-290	<LOD	<LOD	<LOD	122	249
BCSS-SS-E-294	<LOD	<LOD	<LOD	50	56
BCSS-SS-E-298	<LOD	<LOD	650	3,190	1599
BCSS-SS-E-302	<LOD	<LOD	45	78	158
BCSS-SS-E-307	<LOD	<LOD	860	2,240	1467
BCSS-SS-E-311	<LOD	<LOD	394	1,478	796
BCSS-SS-E-315	<LOD	<LOD	398	1,194	1474
BCSS-SS-E-319	<LOD	<LOD	148	501	533
BCSS-SS-E-323	24	<LOD	42	85	308
BCSS-SS-E-327	<LOD	<LOD	68	277	264
BCSS-SS-E-331	<LOD	<LOD	285	967	601
BCSS-SS-E-336	<LOD	<LOD	<LOD	49	94
BCSS-SS-E-340	<LOD	<LOD	475	1,595	1265
BCSS-SS-E-344	<LOD	<LOD	118	298	751
BCSS-SS-E-348	<LOD	<LOD	533	1,643	1069
BCSS-SS-E-352	<LOD	<LOD	64	391	437
BCSS-SS-E-356	<LOD	<LOD	326	799	734
BCSS-SS-E-360	<LOD	<LOD	222	690	671
BCSS-SS-E-364	<LOD	<LOD	652	1,782	1348
BCSS-SS-E-368	<LOD	<LOD	50	104	157

BCSS-SS-E-372	<LOD	<LOD	217	776	646
BCSS-SS-E-372DX	<LOD	<LOD	184	733	610
BCSS-SS-E-376	<LOD	<LOD	176	473	677
BCSS-SS-E-380	57	<LOD	203	849	944
BCSS-SS-E-384	<LOD	<LOD	<LOD	42	76
BCSS-SS-E-387	352	<LOD	321	5,184	2164
BCSS-SS-E-389	<LOD	<LOD	171	586	484
BCSS-SS-E-393	<LOD	<LOD	282	1,272	965
BCSS-SS-E-397	<LOD	<LOD	274	1,138	1041
BCSS-SS-E-401	<LOD	<LOD	44	52	100
BCSS-SS-E-405	<LOD	<LOD	889	2,228	1743
BCSS-SS-E-410	<LOD	<LOD	122	489	654
BCSS-SS-E-410DX	<LOD	<LOD	183	549	767
BCSS-SS-E-414	<LOD	<LOD	104	303	339
BCSS-SS-E-414DX	<LOD	<LOD	74	269	356
BCSS-SS-E-418	62	<LOD	157	578	579
BCSS-SS-E-422	<LOD	<LOD	184	866	1059
BCSS-SS-E-429	<LOD	<LOD	190	879	680
BCSS-SS-E-432	<LOD	<LOD	333	1,197	957
BCSS-SS-E-433	<LOD	<LOD	147	518	596
BCSS-SS-E-441	<LOD	<LOD	251	817	1652
BCSS-SS-E-445	<LOD	<LOD	<LOD	29	82
BCSS-SS-E-449	<LOD	<LOD	<LOD	38	95
BCSS-SS-E-453	<LOD	<LOD	264	1,089	1559
BCSS-SS-E-457	20	<LOD	<LOD	26	90
BCSS-SS-E-461	<LOD	<LOD	76	240	276
BCSS-SS-E-461DX	25	<LOD	86	222	251
BCSS-SS-E-465	<LOD	<LOD	<LOD	28	66
BCSS-SS-E-465DX	13	<LOD	<LOD	22	70
BCSS-SS-E-469	<LOD	<LOD	146	409	531
BCSS-SS-E-473	<LOD	<LOD	566	1,734	1216
BCSS-SS-E-477	<LOD	<LOD	228	735	765
BCSS-SS-E-482	<LOD	<LOD	<LOD	108	151
BCSS-SS-E-482DX	<LOD	<LOD	<LOD	99	146
BCSS-SS-E-486	<LOD	<LOD	368	1,062	858
BCSS-SS-E-491	<LOD	<LOD	46	216	197
BCSS-SS-E-491DX	<LOD	<LOD	98	208	200
BCSS-SS-E-494	<LOD	<LOD	<LOD	16	47
BCSS-SS-E-494D	<LOD	<LOD	<LOD	18	47
BCSS-SS-E-498	<LOD	<LOD	196	647	650
BCSS-SS-E-502	<LOD	<LOD	494	1,756	1507
BCSS-SS-E-506	<LOD	<LOD	310	918	705
BCSS-SS-E-513	<LOD	<LOD	<LOD	36	113
BCSS-SS-E-513D	<LOD	<LOD	<LOD	18	125
BCSS-SS-E-517	<LOD	<LOD	<LOD	46	162
BCSS-SS-E-521	<LOD	<LOD	760	1,715	1866
BCSS-SS-E-525	15	<LOD	<LOD	37	141
BCSS-SS-E-529	<LOD	<LOD	227	778	741
BCSS-SS-E-537	<LOD	<LOD	174	654	549
BCSS-SS-E-537DX	<LOD	<LOD	231	674	414
BCSS-SS-E-541	24	<LOD	<LOD	88	142
BCSS-SS-E-545	<LOD	<LOD	392	1,379	1032

BCSS-SS-E-545D	<LOD	<LOD	518	1,638	912
BCSS-SS-E-549	<LOD	<LOD	302	888	581
BCSS-SS-E-553	<LOD	<LOD	<LOD	48	130
BCSS-SS-E-557	<LOD	<LOD	773	2,478	1049
BCSS-SS-E-561	<LOD	<LOD	497	922	1062
BCSS-SS-E-565	<LOD	<LOD	607	1,391	893
CCSS-SS-E-001	<LOD	<LOD	556	2,273	335
CCSS-SS-E-005	<LOD	<LOD	1199	4,480	593
CCSS-SS-E-009	<LOD	<LOD	579	1,147	405
CCSS-SS-E-014	<LOD	<LOD	695	3,558	409
CCSS-SS-E-018	<LOD	<LOD	737	1,685	652
CCSS-SS-E-018DX	137	<LOD	919	1,996	777
CCSS-SS-E-022	<LOD	<LOD	2036	6,644	1363
CCSS-SS-E-026	<LOD	<LOD	1547	3,144	559
CCSS-SS-E-030	40	<LOD	155	373	520
CCSS-SS-E-034	<LOD	<LOD	82	205	388
CCSS-SS-E-034DX	<LOD	<LOD	86	221	389
CCSS-SS-E-038	<LOD	<LOD	3104	4,490	3846
CCSS-SS-E-042	<LOD	<LOD	1604	4,577	1126
CCSS-SS-E-042DX	<LOD	<LOD	1593	4,882	1201
CCSS-SS-E-046	91	<LOD	183	546	471
CCSS-SS-E-050	24	<LOD	68	130	421
CCSS-SS-E-054	<LOD	<LOD	1309	3,602	909
CCSS-SS-E-058	<LOD	<LOD	37	182	378
CCSS-SS-E-061	<LOD	<LOD	1864	6,822	716
CCSS-SS-E-064	<LOD	<LOD	253	5,273	2263
CCSS-SS-E-068	<LOD	<LOD	672	2,280	1041
CCSS-SS-E-072	<LOD	<LOD	56	168	415
CCSS-SS-E-076	<LOD	<LOD	571	1,218	523
CCSS-SS-E-080	<LOD	<LOD	911	2,564	910
CCSS-SS-E-080D	<LOD	<LOD	1047	2,953	944
CCSS-SS-E-084	<LOD	<LOD	865	3,404	595
CCSS-SS-E-088	32	<LOD	39	87	280
CCSS-SS-E-092	<LOD	<LOD	80	627	406
CCSS-SS-E-096	<LOD	<LOD	234	734	370
CCSS-SS-E-100	<LOD	<LOD	55	141	264
CCSS-SS-E-100DX	<LOD	<LOD	74	129	220
CCSS-SS-E-104	<LOD	<LOD	702	1,657	671
CCSS-SS-E-108	<LOD	<LOD	47	233	213
CCSS-SS-E-112	<LOD	<LOD	165	296	355
CCSS-SS-E-116	<LOD	<LOD	141	359	431
CCSS-SS-E-116DX	<LOD	<LOD	124	355	395
CCSS-SS-E-120	<LOD	<LOD	455	1,938	848
CCSS-SS-E-124	<LOD	<LOD	1695	4,187	1121
CCSS-SS-E-128	<LOD	<LOD	66	205	220
CCSS-SS-E-132	<LOD	<LOD	65	231	290
CCSS-SS-E-136	<LOD	<LOD	1174	3,825	966
CCSS-SS-E-140	39	<LOD	93	248	508
CCSS-SS-E-144	<LOD	<LOD	140	618	674
CCSS-SS-E-148	<LOD	<LOD	1992	5,183	1533
CCSS-SS-E-152	<LOD	<LOD	1506	6,621	584
CCSS-SS-E-156	<LOD	<LOD	49	136	231

CCSS-SS-E-156DX	<LOD	<LOD	<LOD	151	221
CCSS-SS-E-160	<LOD	<LOD	43	158	367
CCSS-SS-E-160D	<LOD	<LOD	84	161	346
CCSS-SS-E-160DX	<LOD	<LOD	<LOD	157	443
CCSS-SS-E-164	<LOD	<LOD	1119	2,888	886
CCSS-SS-E-168	<LOD	<LOD	134	248	154
CCSS-SS-E-172	<LOD	<LOD	307	595	190
CCSS-SS-E-176	<LOD	<LOD	1499	4,406	1017
CCSS-SS-E-180	<LOD	<LOD	1812	6,049	1113
CCSS-SS-E-185	<LOD	<LOD	719	1,987	486
CCSS-SS-E-188	124	<LOD	1503	4,439	1201
CCSS-SS-E-192	<LOD	<LOD	1940	8,333	3010
CCSS-SS-E-196	<LOD	<LOD	940	3,699	778
CCSS-SS-E-200	<LOD	<LOD	77	986	1604
CCSS-SS-E-204	<LOD	<LOD	111	338	395
CCSS-SS-E-208	64	<LOD	178	743	546
CCSS-SS-E-212	<LOD	<LOD	1627	4,779	1083
CCSS-SS-E-216	<LOD	<LOD	794	4,145	472
CCSS-SS-E-220	35	<LOD	72	133	537
CCSS-SS-E-224	<LOD	<LOD	1337	4,792	648
CCSS-SS-E-228	<LOD	<LOD	2444	5,331	2318
CCSS-SS-E-232	<LOD	<LOD	1887	4,763	1694
CCSS-SS-E-236	<LOD	<LOD	1171	3,617	900
CCSS-SS-E-240	<LOD	<LOD	751	3,254	472
CCSS-SS-E-244	36	<LOD	51	149	264
CCSS-SS-E-244D	<LOD	<LOD	92	212	333
CCSS-SS-E-248	<LOD	<LOD	233	749	629
CCSS-SS-E-252	<LOD	<LOD	69	156	118
CCSS-SS-E-252DX	<LOD	<LOD	61	153	136
CCSS-SS-E-256	<LOD	<LOD	1064	2,459	440
CCSS-SS-E-260	<LOD	<LOD	1239	2,210	2354
MGSS-SS-E-002	<LOD	<LOD	255	2,566	672
MGSS-SS-E-007	<LOD	<LOD	190	272	432
MGSS-SS-E-011	<LOD	<LOD	313	345	1104
MGSS-SS-E-015	<LOD	<LOD	236	3,035	300
MGSS-SS-E-019	<LOD	<LOD	590	190	377
MGSS-SS-E-024	<LOD	<LOD	113	138	228
MGSS-SS-E-024DX	25	<LOD	75	131	248
MGSS-SS-E-028	<LOD	<LOD	294	646	1006
MGSS-SS-E-032	<LOD	<LOD	175	217	265
MGSS-SS-E-036	<LOD	<LOD	73	141	184
MGSS-SS-E-040	<LOD	<LOD	50	171	254
MGSS-SS-E-044	25	<LOD	51	210	153
MGSS-SS-E-048	<LOD	<LOD	94	197	249
MGSS-SS-E-048D	<LOD	<LOD	129	186	290
MGSS-SS-E-052	52	<LOD	251	475	381
MGSS-SS-E-056	<LOD	<LOD	548	417	1158
MGSS-SS-E-060	<LOD	<LOD	251	165	715
MGSS-SS-E-064	<LOD	<LOD	110	204	268
MGSS-SS-E-068	<LOD	<LOD	163	154	397
MGSS-SS-E-072	<LOD	<LOD	67	260	288
MGSS-SS-E-076	<LOD	<LOD	89	4,092	731

MGSS-SS-E-076DX	<LOD	<LOD	77	4,047	910
NSSS-SS-E-004	<LOD	<LOD	174	10,395	11009
NSSS-SS-E-004DX	201	<LOD	191	9,950	11226
NSSS-SS-E-008	<LOD	<LOD	72	3,890	3688
NSSS-SS-E-012	<LOD	97	91	4,410	12297
NSSS-SS-E-016	<LOD	<LOD	52	288	440
NSSS-SS-E-020	151	<LOD	213	6,213	2648
NSSS-SS-E-027	<LOD	<LOD	132	3,496	1349
NSSS-SS-E-031	<LOD	<LOD	<LOD	715	768
NSSS-SS-E-035	<LOD	<LOD	<LOD	1,133	24499
NSSS-SS-E-039	<LOD	<LOD	72	1,032	1506
NSSS-SS-E-043	<LOD	<LOD	<LOD	1,867	2145
NSSS-SS-E-047	<LOD	<LOD	<LOD	1,358	1120
NSSS-SS-E-051	<LOD	<LOD	<LOD	167	485
NSSS-SS-E-055	34	<LOD	<LOD	267	550
NSSS-SS-E-059	<LOD	<LOD	<LOD	1,426	2694
NSSS-SS-E-063	<LOD	<LOD	118	3,737	2912
NSSS-SS-E-067	<LOD	<LOD	79	2,419	2478
SCSS-SS-E-004	<LOD	<LOD	<LOD	77	312
SCSS-SS-E-004DX	<LOD	<LOD	<LOD	91	359
SCSS-SS-E-008	<LOD	<LOD	<LOD	83	551
SCSS-SS-E-012	<LOD	<LOD	98	314	1799
SCSS-SS-E-016	21	<LOD	<LOD	90	436
SCSS-SS-E-020	<LOD	<LOD	<LOD	129	417
SCSS-SS-E-024	59	<LOD	53	458	1029
SCSS-SS-E-028	<LOD	<LOD	42	111	271
SCSS-SS-E-032	<LOD	<LOD	41	162	433
SCSS-SS-E-036	54	<LOD	145	323	1238
SCSS-SS-E-040	<LOD	<LOD	37	117	461
SCSS-SS-E-044	<LOD	<LOD	99	400	2391
SCSS-SS-E-048	<LOD	<LOD	35	116	288
SCSS-SS-E-052	<LOD	<LOD	38	129	277
SCSS-SS-E-056	75	<LOD	101	652	1707
SCSS-SS-E-060	64	<LOD	182	859	653
SCSS-SS-E-060DX	60	<LOD	163	737	646
SCSS-SS-E-064	<LOD	<LOD	<LOD	93	201
SCSS-SS-E-068	<LOD	<LOD	40	104	146
SCSS-SS-E-068DX	<LOD	<LOD	<LOD	96	150
SCSS-SS-E-072	<LOD	<LOD	<LOD	81	145
SCSS-SS-E-076	109	<LOD	<LOD	409	2053
SCSS-SS-E-080	88	<LOD	78	731	3120
SCSS-SS-E-084	29	<LOD	42	136	239
SCSS-SS-E-088	<LOD	<LOD	65	137	349
SCSS-SS-E-092	86	63	153	787	5909
SCSS-SS-E-092DX	102	<LOD	133	712	5085
SCSS-SS-E-096	<LOD	<LOD	58	64	231
SCSS-SS-E-100	28	<LOD	67	236	565
SCSS-SS-E-104	<LOD	<LOD	46	147	229
SCSS-SS-E-108	26	<LOD	<LOD	72	328
SCSS-SS-E-112	26	<LOD	<LOD	65	263
SCSS-SS-E-116	141	<LOD	123	1,240	1928
SCSS-SS-E-120	87	<LOD	107	536	2108

SCSS-SS-E-124	<LOD	<LOD	78	785	1564
SCSS-SS-E-128	28	<LOD	37	83	231
SCSS-SS-E-132	<LOD	<LOD	105	412	3797
SCSS-SS-E-136	73	<LOD	103	822	1173
SCSS-SS-E-140	39	<LOD	63	438	806
SCSS-SS-E-140DX	<LOD	<LOD	45	434	841
SCSS-SS-E-144	<LOD	<LOD	<LOD	177	97
SCSS-SS-E-148	<LOD	<LOD	57	309	804
SCSS-SS-E-152	<LOD	<LOD	<LOD	81	372
SCSS-SS-E-152DX	<LOD	<LOD	<LOD	85	342
SCSS-SS-E-156	<LOD	<LOD	<LOD	57	225
SCSS-SS-E-160	24	<LOD	<LOD	87	224
SCSS-SS-E-164	<LOD	<LOD	<LOD	149	85
SCSS-SS-E-168	<LOD	<LOD	<LOD	72	140
SCSS-SS-E-172	<LOD	<LOD	<LOD	76	213
SCSS-SS-E-176	<LOD	<LOD	72	391	502
SCSS-SS-E-180	26	<LOD	<LOD	124	334
SCSS-SS-E-184	<LOD	<LOD	<LOD	63	181
SCSS-SS-E-188	26	<LOD	<LOD	125	382
SCSS-SS-E-193	<LOD	<LOD	<LOD	904	145
SCSS-SS-E-196	25	<LOD	<LOD	149	485
SCSS-SS-E-200	<LOD	<LOD	<LOD	95	129
SCSS-SS-E-204	<LOD	<LOD	36	46	92
SCSS-SS-E-208	<LOD	<LOD	40	223	185
SCSS-SS-E-212	32	<LOD	38	61	115
SCSS-SS-E-214	105	<LOD	<LOD	386	431
SCSS-SS-E-216	36	<LOD	<LOD	191	492
SCSS-SS-E-220	32	<LOD	<LOD	252	500
SCSS-SS-E-224	<LOD	<LOD	67	260	1601
SCSS-SS-E-228	<LOD	<LOD	44	535	569
SCSS-SS-E-232	<LOD	<LOD	72	331	1652
SCSS-SS-E-236	<LOD	<LOD	118	598	2196
SCSS-SS-E-240	45	<LOD	111	743	2306
SCSS-SS-E-248	216	<LOD	94	910	2585
SCSS-SS-E-252	<LOD	<LOD	<LOD	186	477
SCSS-SS-E-256	211	<LOD	148	1,709	931
SCSS-SS-E-260	106	<LOD	129	850	1634
SCSS-SS-E-264	69	<LOD	<LOD	1,358	2146
SCSS-SS-E-264D	72	<LOD	85	1,478	1910
SCSS-SS-E-268	115	83	311	1,030	5925
SCSS-SS-E-272	<LOD	<LOD	<LOD	115	221
SCSS-SS-E-276	<LOD	<LOD	51	92	270
SCSS-SS-E-280	36	<LOD	<LOD	122	245
SCSS-SS-E-284	<LOD	<LOD	50	72	234
SCSS-SS-E-288	<LOD	<LOD	<LOD	47	234
SCSS-SS-E-292	<LOD	<LOD	<LOD	96	228
SCSS-SS-E-296	171	78	257	2,028	1716
SCSS-SS-E-300	63	<LOD	205	872	3016
SCSS-SS-E-304	<LOD	<LOD	187	805	2686
SCSS-SS-E-308	<LOD	<LOD	<LOD	94	242
SCSS-SS-E-312	202	<LOD	92	1,905	1230
SCSS-SS-E-312DX	234	<LOD	92	1,936	1322

SCSS-SS-E-316	147	<LOD	178	2,243	614
SCSS-SS-E-320	226	<LOD	122	2,125	472
SCSS-SS-E-320DX	206	<LOD	125	2,199	475
SCSS-SS-E-324	<LOD	<LOD	36	187	493
SCSS-SS-E-328	<LOD	<LOD	60	242	658

mg/kg: milligrams per kilogram

BCSS: Belt Creek Streamside Sample

CCSS: Carpenter Creek Streamside Sample

MGSS: McKay Gulch Streamside Sample

NSSS: Neihart Slope Streamside Sample

SCSS: Snow Creek Streamside Sample

SS: Soil Sample

E: Ex Situ

<LOD: Less than analytical limit of detection

D: Field Duplicate

DX: XRF Duplicate

TABLE 3: CLP LAB ANALYTICAL RESULTS

Sample Name	As (mg/kg)	Cd (mg/kg)	Cu (mg/kg)	Pb (mg/kg)	Zn (mg/kg)
BCSS-SS-E-008	9.7	0.4	27	181	67
BCSS-SS-E-066	14.5	1.0	103	314	207
BCSS-SS-E-078	11.6	0.5	36	282	203
BCSS-SS-E-090	10.1	0.5	34	230	194
BCSS-SS-E-094	9.8	1.1	31	169	188
BCSS-SS-E-137	28.9	4.1	427	1,900	610
BCSS-SS-E-141	25.3	6.8	837	2,350	910
BCSS-SS-E-145	19.8	3.6	750	1,990	636
BCSS-SS-E-157	5.7	0.4	39	96	84
BCSS-SS-E-177	19.7	7.1	1,250	2,640	1,080
BCSS-SS-E-209	9.4	0.4	27	40	97
BCSS-SS-E-356	10.0	3.8	392	1,060	689
BCSS-SS-E-360	10.5	4.2	408	1,200	728
BCSS-SS-E-506	13.3	4.8	564	1,420	891
BCSS-TP5-001	5.0	0.1	61	171	155
BCSS-TP7-001	33.1	6.8	396	1,390	870
CCSS-SS-E-050	19.2	2.3	30	145	348
CCSS-SS-E-080	29.0	10.9	2,090	5,150	1,250
CCSS-SS-E-084	34.8	3.4	1,040	3,780	549
CCSS-SS-E-120	18.8	4.5	490	1,900	708
CCSS-SS-E-140	15.7	1.9	48	224	339
CCSS-SS-E-176	31.8	11.0	2,040	5,690	1,200
CCSS-SS-E-224	42.5	4.3	1,560	5,880	605
CCSS-TP3-002	8.0	3.9	126	316	621
MGSS-SS-E-024	16.3	0.7	96	147	192
MGSS-SS-E-044	26.0	0.3	44	219	112
NSSS-SS-E-051	19.2	0.7	13	220	444
NSSS-SS-E-055	19.5	2.6	22	292	481
SCSS-SS-E-012	33.7	17.7	96	388	1,750
SCSS-SS-E-128	16.1	0.4	16	185	205
SCSS-SS-E-184	16.5	0.4	17	58	147
SCSS-SS-E-193	13.3	0.4	19	845	187
SCSS-SS-E-196	23.3	6.6	23	146	369
SCSS-SS-E-240	48.2	44.0	162	1,470	2,700
SCSS-SS-E-264	135	11.8	54	1,800	2,280
SCSS-SS-E-300	36.5	20.7	154	983	2,180
SCSS-SS-E-316	152	4.8	193	2,860	659
SCSS-TP3-002	12.0	2.3	90	660	329

mg/kg: milligrams per kilogram
BCSS: Belt Creek Streamside Sample
CCSS: Carpenter Creek Streamside Sample
MGSS: McKay Gulch Streamside Sample
NSSS: Neihart Slope Streamside Sample
SCSS: Snow Creek Streamside Sample
SS: Soil Sample
E: Ex Situ

TABLE 4: TEST PITS SAMPLES ANALYTICAL RESULTS

Sample Name	Depth Interval (inches)	As (mg/kg)	Cd (mg/kg)	Cu (mg/kg)	Pb (mg/kg)	Zn (mg/kg)
BCSS-TP1-001	0-8"	48	<LOD	132	616	775
BCSS-TP2-001	0-24"	<LOD	<LOD	333	2,621	1,171
BCSS-TP2-002	24-30"	<LOD	<LOD	83	883	1,028
BCSS-TP2-003	30-48"	<LOD	<LOD	113	975	764
BCSS-TP3-001	0-24"	<LOD	<LOD	1,245	2,783	1,483
BCSS-TP3-002	24-48"	<LOD	<LOD	97	315	292
BCSS-TP4-001	0-35"	<LOD	<LOD	41	56	182
BCSS-TP4-002	35-40"	<LOD	<LOD	<LOD	50	124
BCSS-TP5-001	0-24"	<LOD	<LOD	56	144	197
BCSS-TP6-001	0-12"	<LOD	<LOD	233	1,894	1,956
BCSS-TP6-001DX	0-12"	<LOD	<LOD	220	1,738	1,758
BCSS-TP7-001	0-18"	<LOD	<LOD	412	1,178	1,191
BCSS-TP7-002	18-36"	<LOD	<LOD	79	95	749
BCSS-TP8-001	0-18"	<LOD	<LOD	277	756	455
BCSS-TP8-002	18-40"	<LOD	<LOD	<LOD	57	82
BCSS-TP9-001	0-16"	<LOD	<LOD	566	2,608	1,154
BCSS-TP9-002	16-48"	<LOD	<LOD	<LOD	185	690
CCSS-TP1-001	0-12"	<LOD	<LOD	1,479	4,260	760
CCSS-TP1-002	12-30"	<LOD	<LOD	100	171	618
CCSS-TP2-001	0-8"	<LOD	<LOD	2,342	7,260	662
CCSS-TP2-002	8-30"	<LOD	<LOD	417	678	496
CCSS-TP3-001	0-4"	<LOD	<LOD	1,696	5,325	1,555
CCSS-TP3-001DX	0-4"	<LOD	<LOD	1,797	5,205	1,772
CCSS-TP3-002	4-24"	<LOD	<LOD	173	496	841
CCSS-TP4-001	0-18"	<LOD	<LOD	622	1,883	361
SCSS-TP1-001	6-60"	156	<LOD	40	662	1,038
SCSS-TP1-002	60-96"	107	<LOD	42	358	1,823
SCSS-TP2-001	0-36"	<LOD	<LOD	108	858	644
SCSS-TP3-001	0-6"	212	<LOD	181	2,276	528
SCSS-TP3-002	12-30"	<LOD	<LOD	230	924	804

mg/kg: milligrams per kilogram

BCSS: Belt Creek Streamside Sample

CCSS: Carpenter Creek Streamside Sample

SCSS: Snow Creek Streamside Sample

SS: Soil Sample

TP: Test Pit

<LOD: Less than analytical limit of detection

DX: XRF Duplicate

APPENDIX A

(Available on CD only)

APPENDIX B

(Available on CD only)

APPENDIX C

(Available on CD only)

APPENDIX D

(Available on CD only)