* Comments due July 25

* CH2MHill comments due July 18/21st

Cite NCP
Need equiv. of FSP QAPP

BAMSF
EUMSF
HNMSF
12.1 v2

MEMORANDUM

MWH

MWH
2353 130th Avenue N.E., Suite 200
Bellevue, Washington 98005
Phone: (425) 602-4000
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To: Barry Koch, Monsanto

Date: June 26, 2008

Rec'd via email
June 27
4:15 pm
DCT

cc: Bob Geddes, Mike Vice, Paul Stenhouse, Monsanto

From: Bill Wright, Colin Duffy, MWH

Subject: Supplemental Waste Rock Dump Soil and Vegetation Characterization Planning Memorandum

INTRODUCTION

This memorandum has been prepared as a plan for waste rock dump soil and vegetation characterization that is supplemental to P4 Production's site investigations for Ballard, Henry, and Enoch Valley. Although there are extensive relevant dump soil and vegetation sampling results from work done to date by the Idaho Mining Association (IMA) at randomly selected dumps, other phosphate mining companies at their nearby dumps, and by P4 Production at some dumps at each of their three inactive phosphate mines (these sampling results are included herein as Appendix A), the IDEQ has requested additional sampling before initiating the engineering evaluation/cost analysis.

Finding based on consideration of many relevant factors.
- need for S.S. info to justify decisions
- limited or deficient doc and data valid.
- cleanup goals PRGs have yet to be established

P4 Production, in their data gap memorandum (M. Rettmann and B. Wright, MWH [memo to M. Rowe, IDEQ] October 19, 2006) identified the potential need to sample waste rock dumps to better determine selenium content of vegetation. This potential was surfaced because, at the time, the National Research Council (2005) has raised its maximum tolerance level (MTL) for selenium in livestock feed from 2 mg/kg (about 2.4 mg/kg dw) to 5 mg/kg dw. During the IMA's regional investigation three waste rock dumps were selected at random from the upper Blackfoot watershed to represent all dumps in that district – two of these random selections were P4 Production dumps, one at Ballard Mine, the other at Henry Mine. The average selenium concentration in vegetation at Ballard Mine was in excess of 5 mg/kg dw, but the averages at the Henry Mine dump and the dump at a non-P4 Production mine were less than 3 mg/kg dw. Statistical evaluation of the results of these two mine dumps have shown that the upper 95% confidence bounds on their respective mean concentrations are both well above 5 mg/kg dw selenium. While the chance still exists that a mean selenium concentration in vegetation may be compliant for a given dump, the variances of the results are sufficiently large that a large number of samples would be required to demonstrate such status with statistically acceptable confidence. Table 1-1 summarizes the historical IMA/P4 waste rock dump sampling effort from 1998 to 2004. While this table is limited to upland (waste rock dump) sampling, historical riparian soil and vegetation sampling results can be found in Tables 5 and 6 of Appendix A, Historical Soil and Vegetation Analytical Data. The historical upland soil and vegetation results are also tabulated in Appendix A as Tables 1 through 4.

USEPA SF
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Table 1-1: Historical Waste Dump Sampling Summary					
Vegetation					
Event	**July 1998**	**Summer 2000 (Enoch Valley dump characterization)**	**Fall 2001**	**2004 (monthly, May-Oct)[a]**	**July 2004 (mass wasting)**
Dump ID	MWD080 (BM) - 5	MWD091 (EVM)	MWD081 (BM) - 3	MWD081 (BM) - 6	MWD082 (BM) - 26
	MWD089 (HM) - 5	MWD092 (EVM)	MWD086 (HM) - 3	MWD086 (HM) - 6	MWD085 (HM) - 26
				MWD091 (EVM) - 6	MWD086 (HM) - 26
					MWD091 (EVM) - 52
Total Samples	10	84 (between the 2 dumps)	6	18	130
Soil					
Event	**July 1998**	**Summer 2000 (Enoch Valley dump characterization)**	**Spring 2001**	**Fall 2001**	**July 2004 (mass wasting and agronomic)**
Dump ID	MWD080 (BM) - 5	MWD091 (EVM)	MWD080 (BM) - 1	MWD081 (BM) - 3	MWD080 (BM) – 4
		MWD092 (EVM)	MWD081 (BM) - 1	MWD086 (HM) - 3	MWD082 (BM) – 29
			MWD085 (HM) - 1		MWD084 (BM) – 1
			MWD086 (HM) - 1		MWD085 (HM) – 26
			MWD090 (HM) - 1		MWD086 (HM) – 26
			MWD091 (EVM) - 2		MWD091 (EVM) – 52
			MWD092 (EVM) - 1		
Total Samples	5	133 (between the 2 dumps)	8	6	138

notes:
The numbers following each dump ID represent the number of samples taken from that dump during that event.
a - One sample was taken from each dump, every month, for six months. Resulting in 18 total samples.
BM - Ballard Mine
HM - Henry Mine
EVM - Enoch Valley Mine

P4 Production has agreed to perform additional soil and vegetation characterization on their waste rock dumps. In a desire to complete the field work in 2008, they have opted to offer this planning memorandum that supplements the site investigation planning documents approved in 2004. Those 2004 plans contain provisions to characterize soil and vegetation quality on and off dumps in areas of potential mass wasting to determine whether or not dumps on slopes have the potential to move downhill, thus expanding the dump. This memorandum invokes those provisions, modifying them and adding to them as necessary to address the IDEQ's perceived data gaps (M. Rowe, IDEQ [e-mail to B. Koch, Monsanto] May 2, 2008).

The 2004 site investigation planning documents being invoked here include the following:

- Comprehensive Site Investigation Ballard Mine Workplan—Final
- Comprehensive Site Investigation Henry Mine Workplan—Final
- Comprehensive Site Investigation Enoch Valley Mine Workplan—Final
- Comprehensive Site Investigation Ballard Mine Project Field Sampling Plan—Final
- Comprehensive Site Investigation Henry Mine Project Field Sampling Plan—Final
- Comprehensive Site Investigation Enoch Valley Mine Project Field Sampling Plan—Final
- Comprehensive Site Investigation Program Field Sampling Plan—Final
- Comprehensive Site Investigation Program Quality Assurance Plan—Final
- Comprehensive Site Investigation Health and Safety Plan—Final

Each of the above planning documents will be addressed herein to ensure that all relevant information will be covered. P4 Production is hoping that this will result in a relatively compact, easy-to-review, yet comprehensive planning memorandum using, primarily, already approved procedures that IDEQ can comfortably approve in June so that field work can commence no later than early July. If agency approval cannot be granted within this timeframe, the field work outlined herein will have to be postponed until 2009.

The remainder of this planning memorandum is organized as follows:

- Workplan Modifications
- Project Field Plan Modifications
- Program Field Sampling Plan Modifications
- Program Quality Assurance Plan Modifications
- Health and Safety Plan Modifications

Sections of the above documents requiring modification are called out below. If a section is not addressed, it stands as is with no modification by this memorandum. Attached to this document is a soil classification SOP, labeled herein as Appendix A. This memorandum applies to all three mines.

WORKPLAN MODIFICATIONS

Sections 3.1.1 to 3.1.7 below address development of data quality objectives.

3.1.1 Step 1: State the Problem

Revise

Based on extensive dump soil and vegetation characterization performed by IMA and P4 Production on P4's mines or nearby mines in the upper Blackfoot River watershed, P4 has stipulated that all waste rock dumps on their three mines have seleniferous soil and vegetation. The IDEQ requests more samples so dumps can be prioritized for possible remedial action.

although MRE report will be considered

3.1.2 Step 2: Identify the Decision

No PRG have been established. Suggest more appropr. language

The data generated under this supplemental activity will be used to determine whether the dumps are in compliance with relevant benchmarks (e.g., 5 mg/kg dw for selenium in edible herbaceous vegetation), thus allowing for a possible determination of the need for remedial action. The data will also be used to prioritize those dumps requiring action, if necessary.

3.1.3 Step 3: Identify the Inputs to the Decision

The decision about compliance will be determined based on the univariate upper 95% confidence bound on the mean of the samples. P4 Production proposes to use nine target analytes that are derived from analyte screenings that IMA, IDEQ, and P4 Production, with IDEQ approval, have conducted. Using univariate statistics to evaluate each variable in a multivariate dataset has the effect of increasing the Type I error rate (i.e., the false-alarm error rate). Because of this, the calculated 95% confidence bounds will, in actuality, have a confidence lower than 95% — the amount of the decrease in confidence will depend on the number of analytes: more analytes, less confidence.

For prioritization of dumps, univariate analysis of variance (ANOVA) will be used, at a confidence level of 95%, to determine the relative magnitude of contamination. Once again, using univariate calculations on a multivariate dataset will result in the actual confidence level being lower, depending again on the number of analytes.

3.1.4 Step 4: Define the Boundaries of the Study

The supplemental activity will occur on each of P4 Production's waste rock dumps plus the undisturbed Dinwoody-Phosphoria-Wells outcrop in Caldwell Canyon, which will function as a control to define background conditions. P4 Production has administrative access to all these areas.

The scale of decision making – i.e., the exposure unit and remedial unit – is an entire dump. Because all dumps contain run-of-mine waste (except the central portions of the two dumps at Enoch Valley Mine where special waste handling was used to place the most seleniferous rock in the cores of the dumps).

3.1.5 Step 5: Develop a Decision Rule

The veterinary toxicology panel report (Raisbeck et. al., 2006, prepared for MWH) contains recommendations for limiting livestock exposures to selenium on and downstream of waste rock dumps. The decision rule for remedial action will be whether or not the upper 95% confidence bound of the mean for the dump exceeds the benchmark or not – for both media, soil or vegetation. Based on this sampling effort, it might mean additional samples are needed to hopefully prove that remedial action is not needed. The number of samples cannot be determined at this time, but can be estimated once the results – the sample mean, sample variance, and distribution form – are ascertained under this effort. P4 Production could use such estimates to make a business decision of whether to abide by the initial outcome to fund further investigation to make a refined decision.

3.1.6 Step 6: Specify Tolerable Limits on Decision Errors

P4 Production will use traditional decision error rates. Traditionally, Type I errors (i.e., false alarms) are controlled at 5% (i.e., a 95% confidence level), while Type II errors (i.e., failed alarms) are controlled at 20% (i.e., an 80% power). While the use of multivariate data will drive the error rates up (and the confidence and power levels down), the fact that selenium is expected to be the dominant contaminant will hopefully help negate the consequences of not focusing.

3.1.7 Step 7: Optimize the Design for Obtaining Data

Multiple samples of both media – surface soil and vegetation – will be obtained from each dump and the background outcrop. This will allow for a statistical characterization and formal hypothesis testing. Specific details of the sampling design are set forth in modifications to the PjtFSP and other project plans below.

3.2.1 Locations, Frequencies, and Numbers of Samples

The purpose of the supplemental dump soil and vegetation characterization effort is two-fold: to determine whether or not significant contamination exists on each dump based on comparison to a background control, and to prioritize the dumps on the basis of degree of contamination. Multiple samples per dump are needed to meet these spatial – dump by dump – objectives.

From a temporal perspective, the potential for significant seasonal and annual variability must be considered. P4 Production assumes that temporal change in surface soil quality is insignificant over less-than-geologic timeframes.

Changes in vegetation quality can obviously occur seasonally, although during the grazing season P4 Production has conducted a vegetation quality study over a six-month period during this site investigation and not found statistically significant changes by month. Such changes for selenium have been reported in the literature, with concentrations being higher in the spring than in the fall, but we are unaware of such a pattern ever being observed in the Southeast Idaho Phosphate Resource Area. If such a pattern does exist, its failure to manifest in a discernible manner argues for any such pattern to be regarded as insignificant from a remedial engineering perspective. Therefore, provisions to further test for seasonal changes in vegetation quality are not needed.

show data

If the procedures used to characterize soil and vegetation quality can be kept comparable to those used previously by IMA and P4 Production, results from this effort can be used to quantify any year-to-year variability at those dumps that have been sampled before. Thus, the procedures used to characterize waste rock dump extent of soil and vegetation contamination set forth in the 2004 plans will be used here with relatively minor modifications, as detailed in the specific modifications to the PgmFSP below.

In summary, each dump and one outcrop, undisturbed by mining, will be characterized. P4 Production has 13 dumps, as shown in the inventory presented in Table 3-1a:

Table 3-1a. P4 Production Waste Rock Dump Inventory and Background Outcrop.

Mine or Unmined Outcrop	Name	ID
Enoch Valley Mine	Enoch Valley Mine South Dump	MWD091
	Enoch Valley Mine North Dump	MWD092
Henry Mine	Henry Mine North Pit Overburden Dump	MWD085
	Henry Mine Pit #1 Overburden Dump	MWD086
	Henry Mine Pit #1 Canyon Fill Dump	MWD087
	Henry Mine Pit #2 Overburden Dump	MWD088
	Henry Mine South Pit Overburden Dump	MWD090
Ballard Mine	Ballard Mine Pit #1 Overburden Dump #1	MWD080
	Ballard Mine Pit #1 Overburden Dump #2	MWD081
	Ballard Mine Pit #3 Overburden Dump	MWD082
	Ballard Mine Pit #4 Overburden Dump	MWD083
	Ballard Mine Pits #5 and #6 Overburden Dump	MWD084
	Ballard Mine Pit #2 Overburden Dump	MWD093
Caldwell Canyon Outcrop	Caldwell Canyon Dinwoody-Phosphoria-Wells Outcrop	MBKGD001

The locations of these dumps and the outcrop are shown in Figure 3-5.

In addition to the 13 dumps, an undisturbed outcrop will be characterized to serve as a control to define background conditions. The outcrop and each dump will be sampled one time during July or August (2008 or 2009, depending upon when IDEQ approval of this planning memorandum is received). On each dump or outcrop five randomly selected locations will be sampled, which totals 70 material cover/surface soil and 70 vegetation samples, with 10% more (7 additional for each medium) for quality assurance purposes – a total of 154 samples.

SCALE
4000 0 4000 8000 FEET
CONTOUR INTERVAL = 100 FEET

LEGEND:

- PRE-MINE CONTOUR & ELEVATION, FEET
- RIVER
- POND OR LAKE
- STREAM – PERENNIAL
- STREAM – INTERMITTENT
- WETLANDS
- ROAD – CLASS 2
- ROAD – CLASS 3
- ROAD – CLASS 4
- MONSANTO HAUL ROAD (ACTIVE & INACTIVE)
- WASTE ROCK PILE LOCATION
- FAULT

REV	DESCRIPTION	TECH	ENG.	DATE
A	ISSUED FOR INTERNAL REVIEW	EAM	CDD	06/18/08

DISCLAIMER:
THIS DRAWING WAS DEVELOPED THROUGH THE APPLICATION OF PROFESSIONAL ENGINEERING SKILL AND PROPRIETARY METHODOLOGIES, PROCESSES, AND KNOW HOW OF MWH AS AUTHOR ALL PURSUANT TO THE TERMS OF A CONTRACTUAL SCOPE OF WORK GOVERNING THEIR PREPARATION. THIS DRAWING MAY NOT BE USED OR MODIFIED OTHER THAN IN STRICT ACCORDANCE WITH THE TERMS OF THE GOVERNING CONTRACT AND SCOPE OF WORK OR OTHERWISE ABSENT THE EXPRESS WRITTEN CONSENT OF MWH. ANY USE OR ALTERATION OR ADAPTATION OF THIS DRAWING SHALL BE CONSISTENT WITH THE AUTHOR'S CONTRACTUAL AND PROPRIETARY RIGHTS AND BE AT USER'S SOLE RISK AND WITHOUT ANY LIABILITY OR LEGAL RESPONSIBILITY OF MWH.

DRAWING REFERENCE(S):
1 PRE-MINE TOPOGRAPHY GENERATED FROM USGS DIGITAL ELEVATION MODELS (DEM)-24K AND DIGITAL LINE GRAPHIC (DLG) FOR HENRY, ID; WAYAN WEST, ID; CHINA HAT, ID; JOHNSON CREEK, ID; SODA SPRINGS, ID; WAYAN EAST, ID; UPPER VALLEY, ID; DRY VALLEY, ID AND LOWER VALLEY, ID. ORIGINAL DATA LOCATED: \\SSB51501\CAD_ENGINEERING_SUPPORT\DESIGN-DRAFTING \CLIENTS_I-P\MONSANTO-P4 PRODUCTION\1010076-2008 HGDR REV4 \DGS-SURVEY DATA\USGS
2 PRE-MINE TOPOGRAPHY PROJECTION IS IDAHO EAST STATE PLANE COORDINATES, NAD 27.

DESIGNED BY	C.DUFFY	06/18/08
DRAWN BY	E.MARKS	06/18/08
CHECKED BY	C.DUFFY	06/18/08
APPROVED BY	B.WRIGHT	06/18/08
PROJECT MANAGER	B.WRIGHT	06/18/08
CLIENT APPROVAL		
CLIENT REFERENCE NO		

P4 PRODUCTION
SOUTHEAST IDAHO MINE-SPECIFIC
SELENIUM PROGRAM

PROJECT LOCATION: HENRY, ENOCH VALLEY & BALLARD MINES
PROJECT: 2008 SUPPLEMENTAL WASTE ROCK DUMP SOIL & VEGETATION CHARACTERIZATION
TITLE: WASTE ROCK DUMP & BACKGROUND OUTCROP LOCATIONS

MWH

FIGURE 3-5
REVISION A
FILE NAME 1010076D078-A

N:\Design Drawings\Clients\P4Monsanto-P4 Production\1010076 WRD Soil Vegetation Char Rev4\DG Sheet Set\1010076D078-A

3.2.2 Contaminants, Receptors, and Pathways of Potential Concern

The summary below is unchanged relative to the 2004 plan, but if the IDEQ offers a different list or lists of contaminants of potential concern, their lists will be used.

Contaminants of Potential Concern

The 2004 plan offers lists for surface soil and vegetation that are slightly different. For simplicity, they are combined here to form one comprehensive list that derives from the screening work previously undertaken by IMA and IDEQ, as set forth in the admininstrative order on consent (AOC) for this project, and further screened by P4 Production and approved by IDEQ in technical memoranda submitted pursuant to this project (with the exception of the addition, by P4 Production, of molybdenum). This resulting comprehensive list for soil and vegetation is as follows:

- selenium,
- cadmium,
- chromium,
- copper,
- molybdenum,
- nickel,
- vanadium, and
- zinc.

Disagree w/ conclusion. Question whether this approach is valid and consistent w/ EPA guidance. - Note that the AOC and IMA studies contained important flaws. - Also, note that AOC: agreed to by Monsanto states that guidance will be followed. - Note that P4 may dispute this by following provisions of AOC

The above list was arrived at using water as an indicator medium, which is valid given that any migration from the waste source – the dumps – occurs in an aqueous state. Thus, P4 Production hopes the IDEQ will understand this and honor the agency's prior logical position on the matter set forth in the AOC and manifested in their approval of the interim plan for surface water and sediment in 2002 and the comprehensive site investigation plans in 2004. However, if they do not, P4 Production will substitute any list offered by IDEQ in lieu of the above and will incorporate that list by appending it to this memorandum.

Receptors of Potential Concern

On the basis of risk assessments done by IMA, IDEQ, and P4 Production, no significant potential for human health risk is known except for a small possibility of contracting a stomach ache from eating extremely large amounts of elk liver over a short period of time.

Flawed assumptions that are wrong & not supported by data. Should consider approp HH risk scenarios → tech. basis for decision

The IDEQ has raised questions about soil exposures related to a camping scenario on. The human population with the largest exposure to dump soils is phosphate miners, not campers. If their exposure to dumps soils is found to be *de mininimus*, then other reasonable exposure scenarios should also be inconsequential.

Despite IDEQ's regional risk assessment showing no risk associated with vegetation deemed culturally important to the Shoshone and Bannock tribes, the agency has for another survey be performed on and downstream of the P4 Production dumps.

what about livestock?

The ecological indicator species listed in the 2004 plan that have potential exposure to dump soils and vegetation are elk, the black-tailed jackrabbit, and the American robin.

Are these approp. indicator species? Include vole. Not including vole is a risk agent decision approp. made later in process.

Pathways of Potential Concern

The primary pathway of interest is ingestion of dump edible herbaceous vegetation, supplemented by incidental ingestion of dump soil. Because the amount of vegetation consumed by herbivores far exceeds the amount of soil ingested, consumption of the former should dominate unless soil concentrations are quite high.

Potential for human exposure exists when elk liver is ingested, as well as if soil is incidentally ingested. Ingestion of plants would likely only occur if culturally significant edible plants were present and harvested ~~frequently~~ from these dumps. - delete "freq." - freq. of harvest

The mechanism by which the selenium gets from the soil to the vegetation is, of course, leaching, which allows plant uptake via their roots.
uptake

3.3 Investigation Objectives

Twenty-one investigation objectives are listed in the 2004 plan (at least in the Henry Mine work plan). The following three objectives are added here:

compare to

22. Survey the material cover and vegetative cover on each dump and background outcrop, documenting degree of cover, as well as type and relative abundance of cover, including presence and abundance of hyperacc. species
produce maps depicting cover type

23. Characterize the quality of dump and background surface soil and vegetation with regard to selenium and other target analytes (or extended list of analytes if provided by IDEQ).

24. Survey the dumps and riparian zones downstream of the dumps for the presence and relative abundance of culturally significant vegetation.

The work undertaken to satisfy the above objectives will be done as supplements to Subtask 4c – Characterization of waste rock dump extent of soil contamination, and Subtask 6f – Characterization of waste rock dump extent of vegetation contamination. No activities are assigned under these two subtasks per the 2004 plan, so the original scope of the subtasks – sampling of on-off dump transects for soil and vegetation quality to determine the potential for downhill migration due to mass wasting – will be regarded henceforth as Activity 4c-1 and Activity 6f-1, respectively. The additional activities under Subtask 4c are thus:

- Activity 4c-2 – dumps material cover and background outcrop soil survey; and,

- Activity 4c-3 – dumps material cover and background outcrop soil quality characterization.

The additional activities under Subtask 6f are:

- Activity 6f-2 – dumps and background outcrop vegetation survey;
- Activity 6f-3 – dumps and background outcrop vegetation quality characterization; and,
- Activity 6f-4 – dumps and downstream riparian culturally significant vegetation survey.

4.4.3 Subtask 4c – Characterization of Waste Rock Dump Extent of Soil Contamination

Activity 4c-2 – Survey of Material Cover on Dumps and Surface Soil on the Background Outcrop.
This activity will be undertaken concurrently with Activity 6f-2. The purpose of this activity is to satisfy half of investigation objective 22, characterize the nature and relative abundance of material cover on waste rock dumps and the relevant upland background outcrop. The survey will cover the entirety of each dump. The procedure is provided in the PgmFSP modifications below.

Activity 4c-3 – Characterization of Dump Material Cover Quality and Background Outcrop Surface Soil Quality.
This activity will be initiated after field work for Activities 4c-2 and 6f-2 are completed, and will be done concurrently with Activity 6f-3. The purpose of this activity is to satisfy part of investigation objective 23, characterize the quality of dump material cover and background surface soil quality with regard to selenium and other target analytes. Each dump and the background outcrop will be characterized by means of five random samples. Modifications to the procedures used for the original scope for Subtask 4c are provided in the PgmFSP modifications below.

4.6.6 Subtask 6f – Characterization of Waste Rock Dump Extent of Vegetation Contamination

Activity 6f-2 – Survey of Vegetation Cover on Dumps and the Background Outcrop.
This activity will be performed concurrently with Activity 4c-2. The purpose is to fulfill the other half of investigation objective 22, characterize the nature and relative abundance of vegetation cover on waste rock dumps and the relevant upland background outcrop. The survey will cover the entirety of each dump. The procedure is provided in the PgmFSP modifications below.

Activity 6f-3 – Characterization of Dump and Background Outcrop Vegetation Quality.
This activity will be initiated after field work for Activities 4c-2 and 6f-2 are completed, and will be done concurrently with Activity 4c-3. The purpose of this activity is to satisfy the other part of investigation objective 23, characterize the quality of dump and background vegetation quality with regard to selenium and other target analytes. Each dump and the background outcrop will be characterized by means of five random samples. Modifications to the procedures used for the original scope for Subtask 6f are provided in the PgmFSP modifications below.

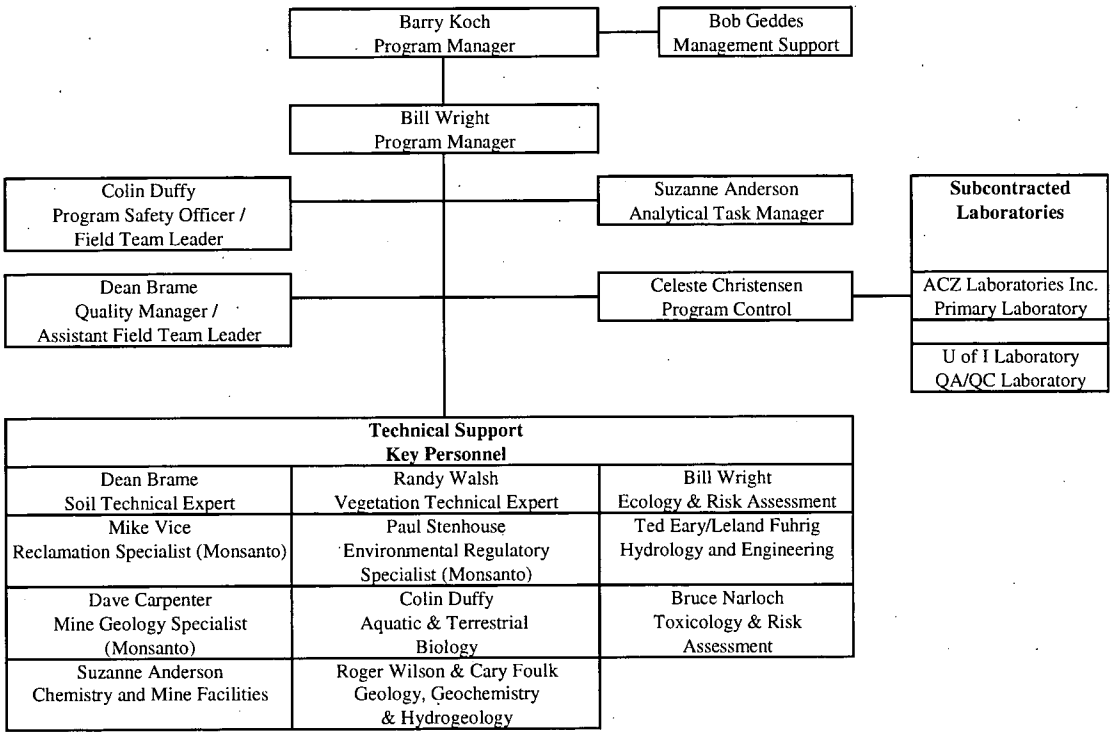
Activity 6f-4 – Survey of Culturally Significant Vegetation on Dumps and Downstream Riparian Zones.
This activity will be initiated after field work for Activity 6f-2 is completed.

5.1 Project Organization

The team undertaking the new activities is outlined in Figure 5-1. Two technical experts from P4 Production, Mike Vice and Paul Stenhouse, have been included to give P4's program manager, Barry Koch, the flexibility of using them on the field team.

The field team leader will file a daily update with the P4 Production and MWH program managers to report daily progress, any variances from planned work for that day, anticipated work for the next day, and any problems or assistance required. A weekly update will be provided to IDEQ's on-scene coordinator, Mike Rowe. These updates will be provided via e-mail.

Figure 5-1
Program Organization Chart



Suggest sharing comments on QA w/ labs to help ensure lab documentation is complete and organized

5.2 Project Contact Information

Contact information for the new activities is presented below in the updated P4 Production Mines-Specific Investigations Contact List.

TABLE 5-1
FIELD CONTACTS

Company or Agency	Contact	Title	Telephone
P4 Production	Bob Geddes	Environmental Regulatory Specialist / Management Support	208-547-1234
	Barry Koch	Special Project Lead—Mining / Program Manager	208-547-1439
	Paul Stenhouse	Environmental Regulatory Specialist	208-547-1294
	Mike Vice	Mine Reclamation Specialist	208-547-1277
	Dave Carpenter	Mine Geology Specialist	208-547-1437
Degerstrom	Bob Nelson	Maintenance Facility Contact	208-574-6110
	Suzanne Young	Office Building Contact	208-574-6112
Idaho Department of Environmental Quality	Mike Rowe	Program Manager	208-236-6160
MWH	Bill Wright	Program Manager	425-602-4000 / cell: (b)(6)
	Colin Duffy	Non-geological Field Team Leader and Program Safety Officer	425-602-4000
	Roger Wilson	Geological Field Team Leader and Supervising Hydrogeologist	425-602-4000
	Dean Brame	Quality Manager / Assistant Field Team Leader	425-602-4000
	Cary Foulk	Senior Hydrogeolgist / Geochemist	970-879-6260
	Suzanne Anderson	Analytical Task Manager, Technical & Field Support	425-602-4000
	Randy Walsh	Technical & Field Support	970-377-9410
	Brian Pauley	Technical & Field Support	425-602-4000
	Bryan Massey	Technical & Field Support	425-602-4000
	Leland Fuhrig	Technical & Field Support	970-879-6260
	Celeste Christensen	Program Control	425-602-4000
Ralston Hydrologic Services	Dale Ralston	Consulting Hydrogeologist	208-883-0533
ACZ Laboratory	Sue Webber	Program Manager	800-334-5493, x110
University of Idaho Analytical Sciences Laboratory	Steve McGeehan	Program Manager	208-885-7900
	Janet Snow	Sample Receiving Contact	208-885-7081

5.3 Project Schedule

If IDEQ approve this planning memorandum by mid-July,P4 Production will be able to complete the work set forth herein during this field season and have a report submitted to IDEQ by mid-January 2009.

Activities 4c-2, 6f-2, and 6f-4 will start during the second week of July. Activities 4c-2 and 6f-2 will be done first and take about a week. Activity 6f-4 will be done subsequently and be completed by the end of July at the latest. All three activities will be documented in two technical memoranda, one covering Activities 4c-2 and 6f-2, the other addressing Activity 6f-4. These memoranda will be submitted to IDEQ no later than the end of August.

Activities 4c-3 and 6f-3 will be initiated after the field portion of Activities 4c-2 and 6f-2 are complete – no earlier than mid-July, and no later than mid-August. These activities are expected to take about two weeks of field effort. It will take at least a month to receive analytical results from the laboratories, so all results will hopefully be available no later than mid-to-late September. Data validation should be concluded by mid-to-late October, at which time the IDEQ will be provided with both the raw data and data validation report.

Allowing at least a month for data evaluation and reporting, a draft report to IDEQ can be expected late-November to mid-December. Thus, the entire duration of this supplement effort, from initiation of field work to submittal of a draft report, is expected to be approximately six months.

If IDEQ approval is not granted by mid-July, the schedule will have to be postponed by one year.

Table 5-2a below summarizes the above discussion.

Table 5-2a. Supplemental Waste Rock Dump and Background Characterization Schedule

Activity	*2008 (or 2009)*					
	J	*A*	*S*	*O*	*N*	*D*
4c-2, Survey of Material Cover on Dumps and Surface Soil on the Background Outcrop						
4c-3, Characterization of Dump Material Cover Quality and Background Outcrop Surface Soil Quality						
6f-2, Survey of Vegetation Cover on Dumps and the Background Outcrop						
6f-3, Characterization of Dump and Background Outcrop Vegetation Quality						
6f-4, Survey of Culturally Significant Vegetation on Dumps and Downstream Riparian Zones						

PROJECT FIELD PLAN MODIFICATIONS

Details for Subtasks 4c and 6f were set forth in the PgmFSP, not the PjtFSP; thus, details for the supplemental activities are addressed below under modifications to the PgmFSP.

PROGRAM FIELD SAMPLING PLAN MODIFICATIONS

3.0 Investigation Objectives

See the modifications to 3.3 of the PjtWP above for the description of the three objectives added to the 2004 plans, plus the activities added to Subtasks 4c and 6f to meet these new objectives.

4.0 Sampling Locations, Frequency, and Schedule

All efforts described herein are one-time events being performed on the schedule shown in PjtWP Table 5-2a and further described in PjtWP Section 5.3 above.

The locations of the waste rock dumps and the background outcrop are shown in Figure 3-5 above in the PjtWP modifications. Activities 4c-2 and 6f-2 will be performed on the level of resolution portrayed in Figure 3-5 – i.e., each entire dump and outcrop will be surveyed and described.

Activities 4c-3 and 6f-3 require that five stations be randomly selected for each dump and the outcrop. A series of 14 maps showing the location of these five stations on each dump or outcrop, are being generated and will be submitted later as attachments to this planning memorandum. These maps will be accompanied by a table showing the map coordinates of each of these 70 stations.

The IDEQ has expressed interest in reviewing the maps to ensure the five stations are randomly spaced. A word of caution: randomness cannot be ascertained subjectively by observation. Random spacing may, by chance, be visually uniform. A rigorous, objective process is used to ensure that all areas on a given dump or outcrop have an equal probability of being selected. If this is not done, then the resulting station selection is not random and any statistical assessment done on the results is meaningless. If IDEQ has any questions about how stations were randomly selected, P4 Production will be happy to provide a demonstration during either a field visit or project meeting. A description of the process is provided in the modifications to the PgmQAP below.

5.0 Sample Designation

The sample designation procedure set forth in Section 5.0 of the 2004 PgmFSP will be followed with one additional option for **YY**: UB will be used to designate upland background, to be used to denote stations sampled on the Caldwell Canyon background outcrop.

6.1 Station Access Requirements

P4 Production has access to all dumps and the background outcrop.

MWH's field equipment and samples will be stored at the garage shop at Fox Hills Ranch located on the Blackfoot River upstream of Ballard Mine, north of Soda Springs. Equipment, supplies, and samples will be shipped and received from the P4 Production plant. Packages shipped to P4 Production will be addressed in care of Bob Geddes, Monsanto.

Field contacts are listed in PjtWP Table 5-1 above.

6.4 Task 4: Soil Investigation

Two activities have been added to Subtask 4c – Activity 4c-2, Survey of Material Cover on Dumps and Surface Soil on the Background Outcrop, and Activity 4c-3, Characterization of Dump Material Cover Quality and Background Outcrop Surface Soil Quality. Physical sampling is not part of Activity 4c-2. For Activity 4c-3, the sampling depth will, at the request of IDEQ, be 6 inches. This is not directly comparable to previous surface soil sampling done by IMA and P4 Production, in which surface soil was defined as the upper 2 inches. The reason for the change is unknown. However, given that all dumps contain run-of-mine waste, it is unlikely that the upper 6-in stratum differs much in any way from the upper 2-in stratum. All comparisons to previously obtain data will have to be qualified. An appropriate soil coring tool will be needed to obtain samples from a 0-to-6-in depth.

6.4.2 Soil Collection at Waste Rock Dump Transects for Subtask 4c

Transects were used to determine whether any mass wasting was occurring on outwardly sloping dumps, but transects will not be used to characterize soil (and vegetation) quality on the dumps (and background outcrop) under Activity 4c-3. Rather, five discrete stations, randomly located, will be sampled. The random selection of stations will proceed as follows:

- an x-y coordinate system will be superimposed over a map of each dump or outcrop, ranging in values from 0 to 1;
- two strings of random numbers will be generated using either Crystal Ball – in Monte Carlo (random), not Latin hypercube (stratified random), mode – or Excel's RAND() function; when using Crystal Ball a user-selected seed will not be used so as to avoid any potential for biasing a string by using a known seed number;
- once random strings are generated they will be saved so as to avoid any inadvertent change (e.g., Excel's RAND() function generates a new value every time any cell is changed and ENTER is hit); this rule avoids any potential for bias by allowing random strings to change until a desired number might surface;
- using the first value from both strings, the two random numbers form a random coordinate with x coming from the first string and y coming from the second; using the first values avoids potential bias that could arise by subjectively selecting an order in the string to start;
- the random coordinate will be plotted on the map by locating the point 100x% and 100y% along the x and y axes, respectively; if the location falls outside the boundaries of the dump or outcrop, the coordinate is discarded;
- once the first coordinate is used or discarded, the second values from both strings are used to form a second coordinate, which is plotted or discarded, as appropriate; this

process proceeds until five locations are plotted on the map; if the number of coordinates discarded results in the strings being used up, another two sets of random number strings are generated; and,

- after the five random locations are plotted on the map, the map coordinates of each location will be determined and tabulated; each map will have a scale showing a 50 ft distance.

Each random station location represents the NW corner of a square 50-ft x 50-ft sampling quadrat. In 2004, because of the relatively small scale of the transect sampling, a 4-ft x 4-ft quadrat was used. A 50-ft x 50-ft quadrat yields a 2,500-ft^2 quadrat, which is the size used to characterize the Enoch Valley Mine dumps for P4 Production in 2001, and the size (although not the same shape) used to characterize riparian habitat in 2004. The quadrat will be oriented such that the sides of the square are oriented true N-S and true W-E.

The maps are being generated now and will be provided as an attachment to this planning memorandum.

Once the field team locates the mapped station, a member of the team will face true N and gently toss (not throw) a wooden stake over the shoulder. Where the pointed end of the stake lands is where the stake will be driven, and that will form the NW corner of the quadrat. This procedure eliminates any potential for biasing the specific location of the stake

Adherence to the above procedure is important, because any deviation that imparts a bias to station location can negate all work done under Activities 4c-3 and 6f-3.

Need revised SOP

Once the NW corner of the quadrat is sited, the other corners are determined in the field with a 50-ft measuring tape and compass. Each quadrat is divided into 1-ft^2 grids, and a composite sample is obtained to represent the quadrat as described in the 2004 PgmFSP. The grids are randomly selected in the field using Crystal Ball employing discrete uniform distributions ranging from 1 to 50. Long strings of random numbers may be generated for use in the field in the event a laptop with Crystal Ball is not available in the field. If so, a different pair of strings will be provided to each crew on the team, and each crew will use the random numbers sequentially in the order provided, marking off those used to avoid inadvertent reuse.

Because of the 6-in depth of the sample, rather than 2-in used before, the coring device should be as narrow as is feasible to avoid overloading the sample container (a 1-gal Ziploc storage bag) with sampled soil.

6.4.5 Soil Analyses

The eight target analytes specified for soil in 2004 – Se, Cd, Cr, Cu, Mo, Ni, V, and Zn – are all specified for soil and vegetation for this supplemental work. Therefore, Table 6-4 has to be modified as follows: the "NAs" for the analytical method under vegetation for Cr, Ni, and V need to be replaced with the specifics provided under surface soil – they are the same.

6.4.6 Material Cover and Soil Survey

This section addresses Activity 4c-2, which wasn't conducted in 2004.

Material or soil cover will, unlike vegetation, always be 100%; thus, it need not be recorded. Material cover will be classified according to the categories defined by Mike Vice for the Enoch Valley Mine soil and vegetation study (MWH, 2001). The categories are:

- topsoil stockpile,
- topsoil cover,
- brown shale,
- cherty shale, and
- black shale.

Other similar categories can be defined if the above do not cover everything encountered. For classification of soil at the background outcrop, the soil classification SOP, attached herein as appendix A, will be used. This SOP employs the standard Unified Soil Classification System categories.

Relative abundance of cover will be classified as follows:

- dominant – 50 to 100% of dump or outcrop,
- abundant – 25 to 50%,
- common – 10 to 25%,
- uncommon – 5 to 10%, and
- rare – 0 to 5%.

The soil survey of each dump or outcrop will be conducted simultaneously with the vegetation survey, so a two-man team is needed with one person being a soil scientist (or equivalent) and the other being a range scientist (or equivalent). The level of resolution of the survey is the entire dump or outcrop. The team will spend sufficient time observing each dump or outcrop in order to thoroughly characterize it as to types present and relative abundances.

For material cover, any other observations that might be relevant shall also be recorded by the soil scientist. For example, particle size and consistency may differ in brown shales on a dump built in the 1950s vs. brown shales on a dump built in the 1990s. Such observations may help determine how fast the cover material is weathering.

6.6.3 Vegetation Collection at Waste Rock Dump Transects for Subtask 6f

Vegetation samples will be collected concurrently with waste rock dump material cover or outcrop surface soil samples. Modifications to procedures for vegetation sampling are discussed above in Section 6.4.2 along with the material cover and soil sample collection.

As in 2004, material cover (or soil) and vegetation samples will both be obtained from each grid randomly selected on a quadrat. Vegetation – of the edible herbaceous type only – will be

sampled before material cover or soil. All vegetation within a grid will be clipped, except for any woody vegetation or inedible noxious weeds that livestock or wildlife would avoid. Mike Vice will instruct the field team before sampling is undertaken to ensure all members can tell the difference between herbaceous and woody vegetation, and understand what inedible noxious herbaceous species might be encountered (which shouldn't be many, because P4 Production doesn't include such species in their reclamation seed mixes).

6.6.6 Vegetation Survey

This section addresses Activity 6f-2, which wasn't conducted in 2004.

Overall vegetative cover for a dump or outcrop will be characterized using the classification system set forth in 6.4.6 above for relative abundance. Vegetation will be identified to species, if possible; if not, to the lowest taxonomic level possible. Ease of identification is the reason this activity needs to commence no later than early July.

Each species encountered will be characterized as to relative abundance using, again, the classification system in 6.4.6.

As noted in 6.4.6 above, the vegetation survey of each dump or outcrop will be conducted simultaneously with the material cover or soil survey. The level of resolution of the survey is the entire dump or outcrop. The team will spend sufficient time driving, walking, and observing each dump or outcrop in order to thoroughly characterize it as to types present and relative abundances.

For vegetation, each species will be further classified as to selenium uptake potential using the three-category system described in Table 6.6.

Table 6-6. Selenium Accumulator Plants (National Research Council, 1983).		
Group 1—Primary Selenium Accumulators. Those plants that normally accumulate Se at very high levels, often several thousand mg/kg dw, including species of:		
Family	Genus	Common Names
Compositae	*Haplopappus*	bristleweed, goldenweed
	Machaeranthera	aster
Cruciferae	*Stanleya*	stanleya, princesplume
Leguminosae	*Astragalus*	locoweed, milk-vetch, poison-vetch, rattle-pod
Group 2—Secondary Selenium Absorbers. Those plants that rarely concentrate selenium to more than a few hundred mg/kg dw, including species of:		
Family	Genus	Common Names
Chenopodiaceae	*Atriplex*	orache, greasewood, shadscale, saltbush, silverscale
Compositae	*Aster*	aster, michaelmas-daisy
	Grindelia	gumweed, gumplant, resinweed, grindelia
	Gutierrezia	matchbrush, matchweed, snakeweed
	Machaeranthera	aster
Loasaceae	*Mentzelia*	blazing-star, metzelia
Scrophulariaceae	*Castilleja*	
Group 3—Normal Plants. Those plants not in either of the above two groups.		

It should be noted that the above classification system describes selenium uptake potential, not actual uptake. At least some of the accumulator Group 1 species grow only on seleniferous soil. In the Southeast Idaho Phosphate Resource Area, normal Group 3 species have been found to contain selenium at concentrations over 100 mg/kg dw when growing in affected soils.

6.6.7 Culturally Significant Plant Survey

This section addresses Activity 6f-4, which was not conducted by P4 Production in 2004, but was conducted, by IDEQ as part of their area-wide risk assessment. A list of culturally significant plants was developed by IDEQ for that risk assessment, in consultation with the natural resource agencies and the Shoshone-Bannock Tribes. These plants are the target of this activity, and the list is as follows:

- Red willows (ten bark)
- Tullees (bull rush)
- Onions (upland)
- Turnips (upland)
- Currents
- Chokecherry
- Huckleberry
- Gooseberry
- Raspberry
- Strawberry
- Sage tops
- Sweet milky white root
- Carrots (upland)
- Bitterroot
- Camas

- Aspen
- Conifers
- Junipers
- All water plants (e.g., water cress, mint).

The presence of significant quantities of culturally significant plants in contaminated areas could create a potential exposure threat by luring people to such areas. Exposure potential exists for those gathering any such plants, but even more so by people ingesting any such plants. Thus, the survey needs to be conducted at all known contaminated areas – both upland and riparian. Contaminated upland areas consist of all 13 P4 Production waste rock dumps (see Table 3-1a); contaminated riparian areas consist of those areas where selenium concentrations above background riparian concentration have been observed along dump seeps, springs, and streams.

Serious deficiency in statistical approach that had to be corrected!

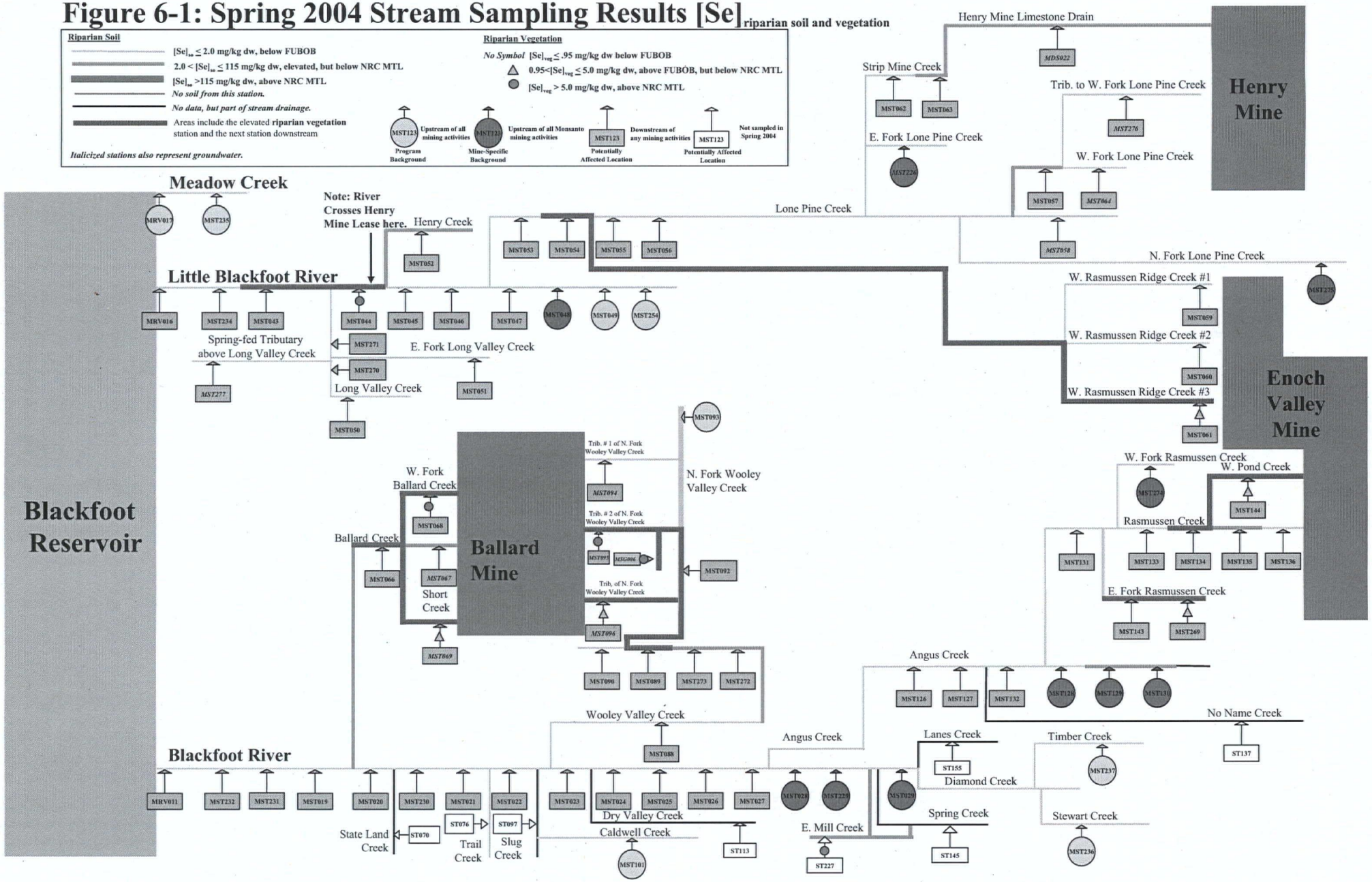
Table 6-7 lists all dumps seeps, springs, and stream stations that had elevated selenium in vegetation in 2004. Elevated selenium is defined as a concentration in excess of the 99.9th percentile of the riparian background vegetation defined with 5% confidence (i.e., the functional upper bound of background, or FUBOB), which is 0.95 mg/kg dw. Table 6-7 also includes the next station downstream from each elevated riparian station. The riparian portion of this survey will include that segment of each stream from the waste rock dump source down to this next, uncontaminated, downstream station. Schematically, the stream segments included are highlighted in the spatial wire diagram depicted in Figure 6-1.

Table 6-7: Monsanto Surface Water Stations with Elevated Selenium in Riparian Vegetation[a]

Mine	*Station*		*Next Station Downstream*	
	Station ID	*Name*	*Station ID*	*Name*
Ballard	MSG006	Southeast Spring	MST092	N. Fk. Wooley Valley Cr.
	MST068	W. Fk. Ballard Cr.	MST066	Ballard Cr.
	MST069	Short Cr.	MST066	Ballard Cr.
	MST095	tributary #2 of N. Fk. Wooley Valley Cr.	MST092	N. Fk. Wooley Valley Cr.
	MST096	tributary of N. Fk. Wooley Valley Cr.	MST089	Wooley Valley Cr.
	MDS030	Ballard Mine, Pit #2 Upper Dump Seep	MST066	Ballard Cr.
	MDS031	Ballard Mine, Pit #2 Lower Dump Seep South	MST066	Ballard Cr.
	MDS032	Ballard Mine, Pit #2 Lower Dump Seep North	MST066	Ballard Cr.
	MDS033	Ballard Mine, Goat Seep	MST066	Ballard Cr.
Henry	MST044	Little Blackfoot R.	MST043	Little Blackfoot R.
Enoch Valley	MST061	W. Rasmussen Ridge Cr. #3	MST054	Lone Pine Cr.
	MST144	W. Pond Cr.	MST134	Rasmussen Cr.
	MST269	E. Fk. Rasmussen Cr.	MST143	E. Fk. Rasmussen Cr.
	MDS025	Enoch Valley Mine, West Dump Seep	MST134	Rasmussen Cr.

notes:
a - *Elevated* is defined as exceeding the functional upper bound of background (or FUBOB), which is 0.95 mg/kg dw.

Figure 6-1: Spring 2004 Stream Sampling Results $[Se]_{riparian\ soil\ and\ vegetation}$



The range scientist conducting Activity 6f-2 will visually survey each entire dump and each impacted stream segment listed in Tables 3-1a and 6-7. The presence of any culturally significant plant species on any dump or stream reach will be recorded, along with an estimate of the species relative abundance. If any evidence of human use of such plants is observed, such evidence will be recorded.

Because a soil scientist is not needed to conduct this survey, this effort will be done after Activity 6f-2 is completed; however, if convenient (and not inefficient), it may be done concurrently with Activities 4f-2 and 6f-2.

PROGRAM QUALITY ASSURANCE PLAN MODIFICATIONS

No modifications to the PgmQAP are needed.

PROGRAM HEALTH AND SAFETY PLAN PLAN MODIFICATIONS

Two dumps are on Enoch Valley Mine, which is still regarded as active because the tipple there is still used to stockpile ore from the active South Rasmussen Mine. Because P4's corporate safety policy for an active mine is more strict in some ways than the requirements of MWH's PgmHSP, P4's corporate safety requirements will take precedence. This will be true whenever P4's safety policy is more strict, regardless of location.

REFERENCES

ASTM D2487-00 Standard Classification of Soils for Engineering Purposes (Unified Soil Classification System).

ASTM D2488-06 Standard Practice for Description and Identification of Soils (Visual-Manual Procedure).

MWH, 2001, *Enoch Valley Mine Waste-Rock Dump Characterization*, prepared for Monsanto, Bellevue, WA.

MWH, 2004a. *Comprehensive Site Investigation, Enoch Valley (Henry or Ballard) Mine Work Plan–Final, P4 Production's Southeast Idaho Mine-Specific Selenium Program.* Prepared for P4 Production. March.

MWH, 2004b. *Comprehensive Site Investigation, Enoch Valley (Henry or Ballard) Mine Project Field Sampling Plan–Final, P4 Production's Southeast Idaho Mine-Specific Selenium Program.* Prepared for P4 Production. April.

MWH, 2004c. *Comprehensive Site Investigation, Enoch Valley (Henry or Ballard) Mine Program Quality Assurance Plan–Final, P4 Production's Southeast Idaho Mine-Specific Selenium Program.* Prepared for P4 Production. April.

MWH, 2004d. *Comprehensive Site Investigation, Enoch Valley (Henry or Ballard) Mine Program Health and Safety Plan–Final, P4 Production's Southeast Idaho Mine-Specific Selenium Program.* Prepared for P4 Production. April.

MWH, 2004e. *Comprehensive Site Investigation, Enoch Valley (Henry or Ballard) Mine Program Field Sampling Plan–Final, P4 Production's Southeast Idaho Mine-Specific Selenium Program.* Prepared for P4 Production. April.

National Research Council, 2005, *Mineral Tolerance of Animals*, 2nd ed., The National Academies Press, Washington, DC.

National Research Council, 1983, *Selenium in Nutrition*, rev. ed., National Academy Press, Washington, DC.

Raisbeck, M. F., M. A. Smith, and P. Talcott (2006), Grazing Reclaimed Minelands in SE Idaho, report prepared for MWH.

add appropriate references for EPA guidance

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APPENDIX A

HISTORICAL SOIL AND VEGETATION ANALYTICAL DATA

Table 1: Upland Soil

Table 2: Enoch Valley Mine - Upland Soil

Table 3: Upland Vegetation

Table 4: Enoch Valley Mine – Upland Vegetation

Table 5: Riparian Soil

Table 6: Riparian Vegetation

Table 1: Upland Soil Analytical Historical Data (mg/kg, dw)																													
					Selenium														Cadmium										
Mine	Station	Location			1998 [a]			2001						2004 total [p]			2004 extractable [p]			1998 [a]			2001						2004 extractable		
	Name	Lat (deg min sec)	Long (deg min sec)	ID	July	RL	Flag	May [b]	RL	Flag	Aug.-Sept. [c]	RL	Flag	July	RL	Flag	July	RL	Flag	July	RL	Flag	May [l]	RL	Flag	Aug.-Sept. [c]	RL	Flag	July	RL	Flag
Ballard	Ballard Mine Pit #1 Overburden Dump #1	(1998/2004)	(1998/2004)	MWD080-avg	110			83		J	NS			NS			0.77			36			120			NS			20		
		(2001) 42 50 01.00	(2001) 111 29 39.70	MWD080-R1	NA			67		J	NA			NA			NA			NA			120			NA			NA		
		(2001) 42 50 01.00	(2001) 111 29 39.70	MWD080-R2	NA			71		J	NA			NA			NA			NA			120			NA			NA		
		(2001) 42 50 01.00	(2001) 111 29 39.70	MWD080-R3	NA			110		J	NA			NA			NA			NA			120			NA			NA		
		42 50 16.75 / 42 49 53	111 29 35.58 / 111 29 33	MWD080-P1	20			NA			NA			NA			1.9			28			NA			NA			24		
		42 50 10.84 / 42 49 37	111 29 38.48 / 111 29 30	MWD080-P2	NA			NA			NA			NA			0.35			NA			NA			NA			34		
		(2001) 42 50 10.84	(2001) 111 29 38.48	MWD080-P2-R1	77			NA			NA			NA			NA			36			NA			NA			NA		
		(2001) 42 50 10.84	(2001) 111 29 38.48	MWD080-P2-R2	43			NA			NA			NA			NA			38			NA			NA			NA		
		(2001) 42 50 10.84	(2001) 111 29 38.48	MWD080-P2-R3	55			NA			NA			NA			NA			29			NA			NA			NA		
		42 50 08.31 / 42 49 59	111 29 37.98 / 111 29 46	MWD080-P3	160			NA			NA			NA			0.26			25			NA			NA			7.9		
		(2001) 42 50 08.31	(2001) 111 29 37.98	MWD080-P3-D	NA			NA			NA			NA			NA			31			NA			NA			NA		
		42 50 04.94 / 42 50 05	111 29 36.28 / 111 29 37	MWD080-P4	82			NA			NA			NA			0.68			42			NA			NA			14		
		(2001) 42 50 03.23	(2001) 111 29 35.25	MWD080-P5	240			NA			NA			NA			NA			49			NA			NA			NA		
		(2001) 42 50 03.23	(2001) 111 29 35.25	MWD080-P5-D	220			NA			NA			NA			NA			NA			NA			NA			NA		
	Ballard Mine Pit #3 Overburden Dump			MWD082-avg	NS			NS			NS			NA			0.62			NS			NS			NS			20		
		42 49 25	111 28 14	MWD082-P1	NA			NA			NA			NA			0.86			NA			NA			NA			11		
		42 49 35	111 28 21	MWD082-P2	NA			NA			NA			NA			0.52			NA			NA			NA			27		
		42 49 42	111 28 31	MWD082-P3	NA			NA			NA			NA			0.50			NA			NA			NA			23		
		42 49 34	111 28 18	MWD082-01	NA			NA			NA			70		J	NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-02	NA			NA			NA			54		J	NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-03	NA			NA			NA			65		J	NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-04	NA			NA			NA			58		J	NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-05	NA			NA			NA			49		J	NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-06	NA			NA			NA			59		J	NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-07	NA			NA			NA			51		J	NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-08	NA			NA			NA			28		J	NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-09	NA			NA			NA			20		J	NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-10	NA			NA			NA			21		J	NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-11	NA			NA			NA			16		J	NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-12	NA			NA			NA			11		J	NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-13	NA			NA			NA			5.4		J	NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-14-avg	NA			NA			NA			62		J	NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-14--R1	NA			NA			NA			63		J	NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-14--R2	NA			NA			NA			62		J	NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-14--R3	NA			NA			NA			60		J	NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-15	NA			NA			NA			54		J	NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-16	NA			NA			NA			53		J	NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-17	NA			NA			NA			71		J	NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-18	NA			NA			NA			65		J	NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-19	NA			NA			NA			53		J	NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-20	NA			NA			NA			42		J	NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-21	NA			NA			NA			14		J	NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-22	NA			NA			NA			11		J	NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-23	NA			NA			NA			8.9		J	NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-24	NA			NA			NA			8.5		J	NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-25	NA			NA			NA			5.9		J	NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-26	NA			NA			NA			4.8		J	NA			NA			NA			NA			NA		

Table 1: Upland Soil Analytical Historical Data (mg/kg, dw) continued																													
					Selenium														Cadmium										
Mine	Station	Location			1998 [a]			2001						2004 total [p]			2004 extractable [p]			1998 [a]			2001						2004 extractable [p]		
	Name	Lat (deg min sec)	Long (deg min sec)	ID	July	RL	Flag	May [b]	RL	Flag	Aug.-Sept. [c]	RL	Flag	July	RL	Flag	July	RL	Flag	July	RL	Flag	May [b]	RL	Flag	Aug.-Sept. [c]	RL	Flag	July	RL	Flag
Ballard	Ballard Mine Pit #1 Overburden Dump #2			MWD081-avg	NS			14		J	21			NS			NS			NS			5.8			44		R	NS		
		42 49 20.30	111 29 14.10	MWD081	NS			14		J	NA			NS			NS			NS			5.8			NA			NS		
		42 49 34.65	111 29 25.72	MWD081-P1	NA			NA			19			NA			NA			NA			NA			44		R	NA		
		42 49 31.61	111 29 13.68	MWD081-P2	NA			NA			24			NA			NA			NA			NA			48		R	NA		
		42 49 21.77	111 29 20.50	MWD081-P3	NA			NA			19			NA			NA			NA			NA			41		R	NA		
	Ballard Mine Pits #5 and #6 Overburden Dump	42 50 07	111 28 31	MWD084	NS			NS			NS			NS			0.12			NS			NS			NS			38		
	Ballard Mine Pit #2 Overburden Dump	42 49 30.20	111 29 01.40	MWD093	NS			14		J	NS			NS			NS			NS			18			NS			NS		
Henry	Henry Mine North Pit Overburden Dump			MWD085-avg	NS			34		J	NS			NA			NS			NS			31			NS			NS		
		42 54 23.90	111 30 28.70	MWD085	NS			34		J	NS			NA			NS			NS			31			NS			NS		
		42 54 36	111 30 34	MWD085-01	NA			NA			NA			40		J	NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-02	NA			NA			NA			38		J	NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-03	NA			NA			NA			53		J	NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-04	NA			NA			NA			28		J	NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-05	NA			NA			NA			0.21	0.50	UJ	NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-06	NA			NA			NA			-0.046	0.50	UJ	NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-07	NA			NA			NA			-0.046	0.50	UJ	NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-08	NA			NA			NA			0.43	0.50	UJ	NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-09	NA			NA			NA			0.34	0.50	UJ	NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-10	NA			NA			NA			0.31	0.50	UJ	NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-11	NA			NA			NA			0.29	0.50	UJ	NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-12	NA			NA			NA			0.29	0.50	UJ	NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-13	NA			NA			NA			0.50	0.50	UJ	NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-14	NA			NA			NA			41		J	NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-15	NA			NA			NA			52		J	NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-16	NA			NA			NA			41		J	NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-17	NA			NA			NA			42		J	NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-18	NA			NA			NA			1.5		J	NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-19	NA			NA			NA			0.13	0.50	UJ	NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-20	NA			NA			NA			0.046	0.50	UJ	NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-21	NA			NA			NA			-0.0051	0.50	UJ	NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-22	NA			NA			NA			0.026	0.50	UJ	NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-23	NA			NA			NA			0.35	0.50	UJ	NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-24	NA			NA			NA			0.026	0.50	UJ	NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-25	NA			NA			NA			0.066	0.50	UJ	NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-26-avg	NA			NA			NA			0.45	0.50	UJ	NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-26-R1	NA			NA			NA			0.49	0.50	UJ	NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-26-R2	NA			NA			NA			0.40	0.50	UJ	NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-26-R3	NA			NA			NA			0.46	0.50	UJ	NA			NA			NA			NA			NA		

Table 1: Upland Soil Analytical Historical Data (mg/kg, dw) continued																													
					Selenium															Cadmium									
Mine	Station	Location			1998 [a]			2001						2004 total [p]			2004 extractable [p]			1998 [a]			2001						2004 extractable [p]		
	Name	Lat (deg min sec)	Long (deg min sec)	ID	July	RL	Flag	May [b]	RL	Flag	Aug.-Sept. [c]	RL	Flag	July	RL	Flag	July	RL	Flag	July	RL	Flag	May [d]	RL	Flag	Aug.-Sept. [c]	RL	Flag	July	RL	Flag
Henry	Henry Mine Center Pit #1 Overburden Dump			MWD086-avg	NS			25		J	15			NA			NS			NS			19			30		R	NS		
		42 52 40.50	111 28 01.40	MWD086	NS			25		J	NA			NS			NS			NS			19			NA			NS		
		42 52 22.95	111 27 44.51	MWD086-P1-R1	NA			NA			14			NA			NA			NA			NA			29		R	NA		
		42 52 22.95	111 27 44.51	MWD086-P1-R2	NA			NA			19			NA			NA			NA			NA			28		R	NA		
		42 52 22.95	111 27 44.51	MWD086-P1-R3	NA			NA			17			NA			NA			NA			NA			28		R	NA		
		42 52 42.87	111 28 11.14	MWD086-P2	NA			NA			12			NA			NA			NA			NA			28		R	NA		
		42 53 11.79	111 28 56.49	MWD086-P3	NA			NA			17			NA			NA			NA			NA			35		R	NA		
		42 52 47	111 27 59	MWD086-01-avg	NS			NS			NA			9.2		J	NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-01-R1	NA			NA			NA			8.9		J	NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-01-R2	NA			NA			NA			9.8		J	NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-01-R3	NA			NA			NA			9.0		J	NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-02	NA			NA			NA			13		J	NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-03	NA			NA			NA			11		J	NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-04	NA			NA			NA			0.90		J	NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-05	NA			NA			NA			0.37	0.50	UJ	NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-06	NA			NA			NA			0.27	0.50	UJ	NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-07	NA			NA			NA			0.39	0.50	UJ	NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-08	NA			NA			NA			0.50		J	NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-09	NA			NA			NA			0.60		J	NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-10	NA			NA			NA			0.15	0.50	UJ	NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-11	NA			NA			NA			0.46	0.50	UJ	NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-12	NA			NA			NA			0.31	0.50	UJ	NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-13	NA			NA			NA			0.22	0.50	UJ	NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-14	NA			NA			NA			12		J	NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-15	NA			NA			NA			14		J	NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-16	NA			NA			NA			13		J	NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-17	NA			NA			NA			2.3		J	NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-18	NA			NA			NA			0.80		J	NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-19	NA			NA			NA			0.29	0.50	UJ	NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-20	NA			NA			NA			0.48	0.50	UJ	NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-21	NA			NA			NA			0.45	0.50	UJ	NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-22	NA			NA			NA			0.70		J	NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-23	NA			NA			NA			-0.087	0.50	UJ	NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-24	NA			NA			NA			-0.031	0.50	UJ	NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-25	NA			NA			NA			0.11	0.50	UJ	NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-26	NA			NA			NA			0.49	0.50	UJ	NA			NA			NA			NA			NA		
	Henry Mine South Pit Overburden Dump	42 51 39.30	111 27 01.20	MWD090	NS			39		J	NS			NS			NS			NS			NS			NS			NS		

Table 1: Upland Soil Analytical Historical Data (mg/kg, dw) continued																													
					Selenium														Cadmium										
Mine	Station	Location			1998 [a]			2001						2004 total [p]			2004 extractable			1998 [a]			2001						2004 extractable [p]		
	Name	Lat (deg min sec)	Long (deg min sec)	ID	July	RL	Flag	May [b]	RL	Flag	Aug.-Sept. [c]	RL	Flag	July	RL	Flag	July	RL	Flag	July	RL	Flag	May [b]	RL	Flag	Aug.-Sept. [c]	RL	Flag	July	RL	Flag
	Enoch Valley Mine Waste Dumps Combined			MWD091-avg	NS			37		J	NS			NA			NS			NS			40			NS			NS		
	Enoch Valley Mine South Dump	42 52 27.70	111 24 17.70	MWD091-P1	NA			35		J	NA			NA			NA			NA			42			NA			NA		
		42 51 55.60	111 23 39.60	MWD091-P2	NA			38		J	NA			NA			NA			NA			37			NA			NA		
	Enoch Valley Mine North Dump	42 53.30.50	111 25.42.80	MWD092	NS			61		J	NS			NS			NS			NS			31			NS			NS		
Enoch Valley	Enoch Valley Mine Waste Dump Location 1	42 53 34	111 25 46	MWD091-01	NA			NA			NA			19		J	NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-02	NA			NA			NA			17		J	NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-03	NA			NA			NA			140		J	NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-04	NA			NA			NA			0.90		J	NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-05	NA			NA			NA			0.11	0.50	UJ	NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-06	NA			NA			NA			0.48	0.50	UJ	NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-07	NA			NA			NA			0.061	0.50	UJ	NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-08	NA			NA			NA			0.020	0.50	UJ	NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-09	NA			NA			NA			0.031	0.50	UJ	NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-10	NA			NA			NA			0.062	0.50	UJ	NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-11	NA			NA			NA			0	0.50	UJ	NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-12	NA			NA			NA			1.2		J	NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-13	NA			NA			NA			0.80		J	NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-14-avg	NA			NA			NA			4.0		J	NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-14-R1	NA			NA			NA			4.1		J	NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-14-R2	NA			NA			NA			3.7		J	NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-14-R3	NA			NA			NA			4.3		J	NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-15	NA			NA			NA			23		J	NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-16	NA			NA			NA			110		J	NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-17	NA			NA			NA			1.2		J	NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-18	NA			NA			NA			0.80		J	NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-19	NA			NA			NA			0.43	0.50	UJ	NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-20	NA			NA			NA			0.50		J	NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-21	NA			NA			NA			0.70		J	NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-22	NA			NA			NA			-0.16	0.50	UJ	NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-23	NA			NA			NA			-0.21	0.50	UJ	NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-24	NA			NA			NA			2.2		J	NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-25	NA			NA			NA			3.3		J	NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-26	NA			NA			NA			-0.20	0.50	UJ	NA			NA			NA			NA			NA		

Table 1: Upland Soil Analytical Historical Data (mg/kg, dw) continued																													
					Selenium														Cadmium										
Mine	Station	Location			1998 [a]			2001						2004 total [P]			2004 extractable [P]			1998 [a]			2001						2004 extractable [P]		
	Name	Lat (deg min sec)	Long (deg min sec)	ID	July	RL	Flag	May [b]	RL	Flag	Aug.-Sept. [c]	RL	Flag	July	RL	Flag	July	RL	Flag	July	RL	Flag	May [d]	RL	Flag	Aug.-Sept. [c]	RL	Flag	July	RL	Flag
Enoch Valley	Enoch Valley Mine Waste Dump Location 2	42 51 56	111 23 48	MWD091-27	NA			NA			NA			4.9		J	NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-28	NA			NA			NA			4.2		J	NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-29	NA			NA			NA			2.8		J	NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-30	NA			NA			NA			7.7		J	NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-31	NA			NA			NA			2.4		J	NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-32	NA			NA			NA			3.2		J	NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-33	NA			NA			NA			4.1		J	NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-34	NA			NA			NA			3.6		J	NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-35	NA			NA			NA			2.6		J	NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-36	NA			NA			NA			2.2		J	NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-37	NA			NA			NA			2.3		J	NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-38	NA			NA			NA			2.4		J	NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-39	NA			NA			NA			3.5		J	NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-40	NA			NA			NA			9.7		J	NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-41	NA			NA			NA			5.2		J	NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-42	NA			NA			NA			-0.44	0.50	UJ	NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-43	NA			NA			NA			-0.58	0.50	UJ	NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-44	NA			NA			NA			5.7		J	NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-45	NA			NA			NA			3.4		J	NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-46	NA			NA			NA			2.7		J	NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-47	NA			NA			NA			5.7		J	NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-48	NA			NA			NA			7.0		J	NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-49	NA			NA			NA			4.0		J	NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-50	NA			NA			NA			3.6		J	NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-51	NA			NA			NA			3.1		J	NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-52-avg	NA			NA			NA			2.5		J	NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-52-R1	NA			NA			NA			3.0		J	NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-52-R2	NA			NA			NA			2.1		J	NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-52-R3	NA			NA			NA			2.4		J	NA			NA			NA			NA			NA		

Table 1: Upland Soil Analytical Historical Data (mg/kg, dw) continued																																	
					Calcium						Iron			Iron			Magnesium			Magnesium			Manganese										
Mine	Station	Location			1998 [a]			2004 (meq/L) [p]			1998 [a]			2004 extractable [p]			1998 [a]			2004 (meq/L) [p]			1998 [a]			2001					2004 extractable [p]		
	Name	Lat (deg min sec)	Long (deg min sec)	ID	July	RL	Flag	July	RL	Flag	July	RL	Flag	July	RL	Flag	July	RL	Flag	July	RL	Flag	July	RL	Flag	May [1]	RL	Flag	Aug.-Sept. [4]	RL	Flag	July	RL	Flag
Ballard	Ballard Mine Pit #1 Overburden Dump #1	(1998/2004)	(1998/2004)	MWD080-avg	120000			3.4			12000			40			5100			0.76			240			100		J	NS			1.8		
		(2001) 42 50 01.00	(2001) 111 29 39.70	MWD080-R1	NA			NA			NA			NA			NA			NA			NA			100		J	NA			NA		
		(2001) 42 50 01.00	(2001) 111 29 39.70	MWD080-R2	NA			NA			NA			NA			NA			NA			NA			100		J	NA			NA		
		(2001) 42 50 01.00	(2001) 111 29 39.70	MWD080-R3	NA			NA			NA			NA			NA			NA			NA			100		J	NA			NA		
		42 50 16.75 / 42 49 53	111 29 35.58 / 111 29 33	MWD080-P1	120000			7.3			5000			77			7300			2.0			210			NA			NA			3.5		
		42 50 10.84 / 42 49 37	111 29 38.48 / 111 29 30	MWD080-P2	NA			2.2			NA			16			NA			0.18			NA			NA			NA			0.70		
		(2001) 42 50 10.84	(2001) 111 29 38.48	MWD080-P2-R1	120000			NA			16000			NA			4900			NA			270			NA			NA			NA		
		(2001) 42 50 10.84	(2001) 111 29 38.48	MWD080-P2-R2	130000			NA			17000			NA			4800			NA			300			NA			NA			NA		
		(2001) 42 50 10.84	(2001) 111 29 38.48	MWD080-P2-R3	150000			NA			7900			NA			6700			NA			250			NA			NA			NA		
		42 50 08.31 / 42 49 59	111 29 37.98 / 111 29 46	MWD080-P3	100000			1.5			18000			36			2700			0.41			210			NA			NA			1.2		
		(2001) 42 50 08.31	(2001) 111 29 37.98	MWD080-P3-D	80000			NA			20000			NA			2700			NA			310			NA			NA			NA		
		42 50 04.94 / 42 50 05	111 29 36.28 / 111 29 37	MWD080-P4	130000			2.7			7700			30			6400			0.56			270			NA			NA			1.8		
		(2001) 42 50 03.23	(2001) 111 29 35.25	MWD080-P5	120000			NA			12000			NA			3500			NA			180			NA			NA			NA		
		(2001) 42 50 03.23	(2001) 111 29 35.25	MWD080-P5-D	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
	Ballard Mine Pit #3 Overburden Dump			MWD082-avg	NS			2.7			NS			27			NS			0.61			NS			NS			NS			2.2		
		42 49 25	111 28 14	MWD082-P1	NA			3.5			NA			40			NA			0.95			NA			NA			NA			3.3		
		42 49 35	111 28 21	MWD082-P2	NA			2.1			NA			22			NA			0.41			NA			NA			NA			0.90		
		42 49 42	111 28 31	MWD082-P3	NA			2.4			NA			18			NA			0.47			NA			NA			NA			2.3		
		42 49 34	111 28 18	MWD082-01	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-02	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-03	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-04	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-05	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-06	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-07	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-08	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-09	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-10	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-11	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-12	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-13	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-14-avg	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-14--R1	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-14--R2	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-14--R3	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-15	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-16	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-17	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-18	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-19	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-20	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-21	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-22	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-23	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-24	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-25	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-26	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		

Table 1: Upland Soil Analytical Historical Data (mg/kg, dw) continued																																
					Calcium						Iron			Iron			Magnesium			Magnesium			Manganese									
Mine	Station	Location			1998 [a]			2004 (meq/L) [p]			1998 [a]			2004 extractable [p]			1998 [a]			2004 (meq/L) [p]			1998 [a]			2001						2004 extractable [p]		
	Name	Lat (deg min sec)	Long (deg min sec)	ID	July	RL	Flag	July	RL	Flag	July	RL	Flag	July	RL	Flag	July	RL	Flag	July	RL	Flag	July	RL	Flag	May [b]	RL	Flag	Aug.-Sept. [c]	RL	Flag	July	RL	Flag
Ballard	Ballard Mine Pit #1 Overburden Dump #2			MWD081-avg	NS			NS			NS			NS			NS			NS			NS			99		J	360		J	NS		
		42 49 20.30	111 29 14.10	MWD081	NS			NS			NS			NS			NS			NS			NS			99		J	NA			NS		
		42 49 34.65	111 29 25.72	MWD081-P1	NA			NA			NA			NA			NA			NA			NA			NA			380		J	NA		
		42 49 31.61	111 29 13.68	MWD081-P2	NA			NA			NA			NA			NA			NA			NA			NA			290		J	NA		
		42 49 21.77	111 29 20.50	MWD081-P3	NA			NA			NA			NA			NA			NA			NA			NA			410		J	NA		
	Ballard Mine Pits #5 and #6 Overburden Dump	42 50 07	111 28 31	MWD084	NS			1.2			NS			29			NS			0.40			NS			NS			NS			2.4		
	Ballard Mine Pit #2 Overburden	42 49 30.20	111 29 01.40	MWD093	NS			NS			NS			NS			NS			NS			NS			480		J	NS			NS		
Henry	Henry Mine North Pit Overburden Dump			MWD085-avg	NS			NS			NS			NS			NS			NS			NS			280		J	NS			NS		
		42 54 23.90	111 30 28.70	MWD085	NS			NS			NS			NS			NS			NS			NS			280		J	NS			NS		
		42 54 36	111 30 34	MWD085-01	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-02	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-03	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-04	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-05	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-06	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-07	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-08	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-09	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-10	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-11	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-12	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-13	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-14	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-15	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-16	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-17	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-18	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-19	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-20	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-21	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-22	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-23	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-24	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-25	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-26-avg	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-26-R1	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-26-R2	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-26-R3	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		

Table 1: Upland Soil Analytical Historical Data (mg/kg, dw) continued																																
					Calcium						Iron			Iron			Magnesium			Magnesium			Manganese									
Mine	Station	Location			1998 [a]			2004 (meq/L) [p]			1998 [a]			2004 extractable [p]			1998 [a]			2004 (meq/L) [p]			1998 [a]			2001						2004 extractable [p]		
	Name	Lat (deg min sec)	Long (deg min sec)	ID	July	RL	Flag	July	RL	Flag	July	RL	Flag	July	RL	Flag	July	RL	Flag	July	RL	Flag	July	RL	Flag	May [t]	RL	Flag	Aug.-Sept. [t]	RL	Flag	July	RL	Flag
Henry	Henry Mine Center Pit #1 Overburden Dump			MWD086-avg	NS			NS			NS			NS			NS			NS			NS			270		J	430		J	NS		
		42 52 40.50	111 28 01.40	MWD086	NS			NS			NS			NS			NS			NS			NS			270		J	NA			NS		
		42 52 22.95	111 27 44.51	MWD086-P1-R1	NA			NA			NA			NA			NA			NA			NA			NA			310		J	NA		
		42 52 22.95	111 27 44.51	MWD086-P1-R2	NA			NA			NA			NA			NA			NA			NA			NA			290		J	NA		
		42 52 22.95	111 27 44.51	MWD086-P1-R3	NA			NA			NA			NA			NA			NA			NA			NA			300		J	NA		
		42 52 42.87	111 28 11.14	MWD086-P2	NA			NA			NA			NA			NA			NA			NA			NA			480		J	NA		
		42 53 11.79	111 28 56.49	MWD086-P3	NA			NA			NA			NA			NA			NA			NA			NA			500		J	NA		
		42 52 47	111 27 59	MWD086-01-avg	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-01-R1	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-01-R2	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-01-R3	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-02	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-03	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-04	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-05	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-06	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-07	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-08	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-09	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-10	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-11	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-12	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-13	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-14	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-15	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-16	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-17	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-18	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-19	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-20	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-21	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-22	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-23	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-24	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-25	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-26	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
	Henry Mine South Pit Overburden Dump	42 51 39.30	111 27 01.20	MWD090	NS			NS			NS			NS			NS			NS			NS			200		J	NS			NS		

Table 1: Upland Soil Analytical Historical Data (mg/kg, dw) continued																																	
					Calcium						Iron			Iron			Magnesium			Magnesium			Manganese										
Mine	Station	Location			1998 [a]			2004 (meq/L) [p]			1998 [a]			2004 extractable [p]			1998 [a]			2004 (meq/L) [p]			1998 [a]			2001						2004 extractable [p]		
	Name	Lat (deg min sec)	Long (deg min sec)	ID	July	RL	Flag	July	RL	Flag	July	RL	Flag	July	RL	Flag	July	RL	Flag	July	RL	Flag	July	RL	Flag	May [1]	RL	Flag	Aug.-Sept. [1]	RL	Flag	July	RL	Flag
Enoch Valley	Enoch Valley Mine Waste Dumps Combined			MWD091-avg	NS			NS			NS			NS			NS			NS			NS			64		J	NS			NS		
	Enoch Valley Mine South	42 52 27.70	111 24 17.70	MWD091-P1	NA			NA			NA			NA			NA			NA			NA			85		J	NA			NA		
		42 51 55.60	111 23 39.60	MWD091-P2	NA			NA			NA			NA			NA			NA			NA			42			NA			NA		
	Enoch Valley Mine North Dump	42 53.30.50	111 25.42.80	MWD092	NS			NS			NS			NS			NS			NS			NS			110		J	NS			NS		
	Enoch Valley Mine Waste Dump Location 1	42 53 34	111 25 46	MWD091-01	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-02	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-03	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-04	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-05	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-06	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-07	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-08	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-09	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-10	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-11	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-12	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-13	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-14-avg	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-14-R1	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-14-R2	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-14-R3	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-15	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-16	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-17	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-18	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-19	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-20	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-21	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-22	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-23	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-24	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-25	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-26	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		

Table 1: Upland Soil Analytical Historical Data (mg/kg, dw) continued																																		
					Calcium						Iron			Iron			Magnesium			Magnesium			Manganese											
Mine	Station	Location			1998 [d]			2004 (meq/L) [p]			1998 [d]			2004 extractable [p]			1998 [d]			2004 (meq/L) [p]			1998 [a]			2001						2004 extractable [p]		
	Name	Lat (deg min sec)	Long (deg min sec)	ID	July	RL	Flag	July	RL	Flag	July	RL	Flag	July	RL	Flag	July	RL	Flag	July	RL	Flag	July	RL	Flag	May [1]	RL	Flag	Aug.-Sept. [1]	RL	Flag	July	RL	Flag
Enoch Valley	Enoch Valley Mine Waste Dump Location 2	42 51 56	111 23 48	MWD091-27	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-28	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-29	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-30	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-31	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-32	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-33	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-34	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-35	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-36	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-37	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-38	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-39	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-40	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-41	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-42	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-43	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-44	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-45	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-46	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-47	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-48	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-49	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-50	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-51	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-52-avg	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-52-R1	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-52-R2	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-52-R3	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		

Table 1: Upland Soil Analytical Historical Data (mg/kg, dw) continued																													
					NH4			NH4			Aluminum			Antimony						Arsenic						Barium					
Mine	Station	Location			1998 [a]			2004 [p]			2001			2001						2001						2001					
	Name	Lat (deg min sec)	Long (deg min sec)	ID	July	RL	Flag	July	RL	Flag	Aug.-Sept. [s]	RL	Flag	May [h]	RL	Flag	Aug.-Sept. [c]	RL	Flag	May [h]	RL	Flag	Aug.-Sept. [s]	RL	Flag	May [s]	RL	Flag	Aug.-Sept. [s]	RL	Flag
Ballard	Ballard Mine Pit #1 Overburden Dump #1	(1998/2004)	(1998/2004)	MWD080-avg	2.5			4.3	18	U	NS			13			NS			39			NS			100		J	NS		
		(2001) 42 50 01.00	(2001) 111 29 39.70	MWD080-R1	NA			NA			NA			13			NA			43			NA			100		J	NA		
		(2001) 42 50 01.00	(2001) 111 29 39.70	MWD080-R2	NA			NA			NA			12			NA			36			NA			100		J	NA		
		(2001) 42 50 01.00	(2001) 111 29 39.70	MWD080-R3	NA			NA			NA			13			NA			39			NA			100		J	NA		
		42 50 16.75 / 42 49 53	111 29 35.58 / 111 29 33	MWD080-P1	3.1			7.0	18	U	NA			NA			NA			NA			NA			NA			NA		
		42 50 10.84 / 42 49 37	111 29 38.48 / 111 29 30	MWD080-P2	NA			4.0	18	U	NA			NA			NA			NA			NA			NA			NA		
		(2001) 42 50 10.84	(2001) 111 29 38.48	MWD080-P2-R1	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		(2001) 42 50 10.84	(2001) 111 29 38.48	MWD080-P2-R2	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		(2001) 42 50 10.84	(2001) 111 29 38.48	MWD080-P2-R3	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 50 08.31 / 42 49 59	111 29 37.98 / 111 29 46	MWD080-P3	2.7			3.0	18	U	NA			NA			NA			NA			NA			NA			NA		
		(2001) 42 50 08.31	(2001) 111 29 37.98	MWD080-P3-D	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 50 04.94 / 42 50 05	111 29 36.28 / 111 29 37	MWD080-P4	2.0			3.0	18	U	NA			NA			NA			NA			NA			NA			NA		
		(2001) 42 50 03.23	(2001) 111 29 35.25	MWD080-P5	2.4			NA			NA			NA			NA			NA			NA			NA			NA		
		(2001) 42 50 03.23	(2001) 111 29 35.25	MWD080-P5-D	NA			NA			NA			NA			NA			NA			NA			NA			NA		
	Ballard Mine Pit #3 Overburden Dump			MWD082-avg	NS			8.0	18	U	NS			NS			NS			NS			NS			NS			NS		
		42 49 25	111 28 14	MWD082-P1	NA			9.0	18	U	NA			NA			NA			NA			NA			NA			NA		
		42 49 35	111 28 21	MWD082-P2	NA			8.0	18	U	NA			NA			NA			NA			NA			NA			NA		
		42 49 42	111 28 31	MWD082-P3	NA			7.0	18	U	NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-01	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-02	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-03	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-04	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-05	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-06	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-07	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-08	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-09	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-10	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-11	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-12	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-13	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-14-avg	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-14--R1	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-14--R2	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-14--R3	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-15	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-16	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-17	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-18	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-19	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-20	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-21	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-22	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-23	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-24	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-25	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-26	NA			NA			NA			NA			NA			NA			NA			NA			NA		

Table 1: Upland Soil Analytical Historical Data (mg/kg, dw) continued																													
					NH4			NH4			Aluminum			Antimony						Arsenic						Barium			
Mine	Station	Location			1998 [a]			2004 [p]			2001			2001						2001						2001			
	Name	Lat (deg min sec)	Long (deg min sec)	ID	July	RL	Flag	July	RL	Flag	Aug.-Sept. [c]	RL	Flag	May [b]	RL	Flag	Aug.-Sept. [c]	RL	Flag	May [b]	RL	Flag	Aug.-Sept. [c]	RL	Flag	May [b]	RL	Flag	Aug.-Sept. [c]	RL	Flag
Ballard	Ballard Mine Pit #1 Overburden Dump #2			MWD081-avg	NS			NS			17000		R	3.4	7.5	U	3.4		J	22			22		R	39		J	120		J
		42 49 20.30	111 29 14.10	MWD081	NS			NS			NA			3.4	7.5	U	NA			22			NA			39		J	NA		
		42 49 34.65	111 29 25.72	MWD081-P1	NA			NA			19000		R	NA			3.4		J	NA			21		R	NA			140		J
		42 49 31.61	111 29 13.68	MWD081-P2	NA			NA			14000		R	NA			3.4		J	NA			23		R	NA			110		J
		42 49 21.77	111 29 20.50	MWD081-P3	NA			NA			17000		R	NA			3.5		J	NA			23			NA			110		J
	Ballard Mine Pits #5 and #6 Overburden Dump	42 50 07	111 28 31	MWD084	NS			8.0			NS			NS			NS			NS			NS			NS			NS		
	Ballard Mine Pit #2 Overburden Dump	42 49 30.20	111 29 01.40	MWD093	NS			NS			NS			5.2	7.5	U	NS			28			NS			91		J	NS		
Henry	Henry Mine North Pit Overburden Dump			MWD085-avg	NS			NS			NS			15			NS			37			NS			94		J	NS		
		42 54 23.90	111 30 28.70	MWD085	NS			NS			NS			15			NS			37			NS			94		J	NS		
		42 54 36	111 30 34	MWD085-01	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-02	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-03	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-04	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-05	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-06	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-07	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-08	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-09	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-10	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-11	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-12	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-13	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-14	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-15	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-16	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-17	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-18	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-19	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-20	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-21	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-22	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-23	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-24	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-25	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-26-avg	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-26-R1	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-26-R2	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-26-R3	NA			NA			NA			NA			NA			NA			NA			NA			NA		

Table 1: Upland Soil Analytical Historical Data (mg/kg, dw) continued																														
					NH4			NH4			Aluminum			Antimony						Arsenic						Barium				
Mine	Station	Location			1998 [a]			2004 [p]			2001			2001						2001						2001				
	Name	Lat (deg min sec)	Long (deg min sec)	ID	July	RL	Flag	July	RL	Flag	Aug.-Sept. [t]	RL	Flag	May [l]	RL	Flag	Aug.-Sept. [t]	RL	Flag	May [l]	RL	Flag	Aug.-Sept. [t]	RL	Flag	May [l]	RL	Flag	Aug.-Sept. [t]	RL
Henry	Henry Mine Center Pit #1 Overburden Dump			MWD086-avg	NS			NS			11000		R	17			5.0		J	50			32		R	110		J	110		J
		42 52 40.50	111 28 01.40	MWD086	NS			NS			NA			17			NA			50			NA			110		J	NA		
		42 52 22.95	111 27 44.51	MWD086-P1-R1	NA			NA			8800		R	NA			6.9		J	NA			33		R	NA			100		J
		42 52 22.95	111 27 44.51	MWD086-P1-R2	NA			NA			8900		R	NA			6.5		J	NA			35		R	NA			99		J
		42 52 22.95	111 27 44.51	MWD086-P1-R3	NA			NA			8600		R	NA			6.1		J	NA			34		R	NA			98		J
		42 52 42.87	111 28 11.14	MWD086-P2	NA			NA			11000		R	NA			4.5		J	NA			32		R	NA			120		J
		42 53 11.79	111 28 56.49	MWD086-P3	NA			NA			13000		R	NA			4.1		J	NA			31		R	NA			110		J
		42 52 47	111 27 59	MWD086-01-avg	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-01-R1	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-01-R2	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-01-R3	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-02	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-03	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-04	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-05	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-06	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-07	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-08	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-09	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-10	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-11	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-12	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-13	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-14	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-15	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-16	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-17	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-18	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-19	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-20	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-21	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-22	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-23	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-24	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-25	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-26	NA			NA			NA			NA			NA			NA			NA			NA			NA		
	Henry Mine South Pit Overburden Dump	42 51 39.30	111 27 01.20	MWD090	NS			NS			NS			12			NS			49			NS			75		J	NS		

Table 1: Upland Soil Analytical Historical Data (mg/kg, dw) continued																														
					NH4			NH4			Aluminum			Antimony						Arsenic						Barium				
Mine	Station	Location			1998 [a]			2004 [b]			2001			2001						2001						2001				
	Name	Lat (deg min sec)	Long (deg min sec)	ID	July	RL	Flag	July	RL	Flag	Aug.-Sept. [c]	RL	Flag	May [d]	RL	Flag	Aug.-Sept. [c]	RL	Flag	May [d]	RL	Flag	Aug.-Sept. [c]	RL	Flag	May [d]	RL	Flag	Aug.-Sept. [c]	RL	Flag
Enoch Valley	Enoch Valley Mine Waste Dumps Combined			MWD091-avg	NS			NS			NS			19			NS			31			NS			140			NS		
	Enoch Valley Mine South Dump	42 52 27.70	111 24 17.70	MWD091-P1	NA			NA			NA			23			NA			40			NA			170		J	NA		
		42 51 55.60	111 23 39.60	MWD091-P2	NA			NA			NA			14			NA			22			NA			110		J	NA		
	Enoch Valley Mine North Dump	42 53.30.50	111 25.42.80	MWD092	NS			NS			NS			16			NS			57			NS			75		J	NS		
	Enoch Valley Mine Waste Dump Location 1	42 53 34	111 25 46	MWD091-01	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-02	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-03	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-04	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-05	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-06	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-07	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-08	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-09	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-10	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-11	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-12	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-13	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-14-avg	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-14-R1	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-14-R2	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-14-R3	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-15	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-16	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-17	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-18	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-19	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-20	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-21	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-22	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-23	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-24	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-25	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-26	NA			NA			NA			NA			NA			NA			NA			NA			NA		

Table 1: Upland Soil Analytical Historical Data (mg/kg, dw) continued																													
					NH4			NH4			Aluminum			Antimony						Arsenic						Barium					
Mine	Station	Location			1998 [d]			2004 [p]			2001			2001						2001						2001					
	Name	Lat (deg min sec)	Long (deg min sec)	ID	July	RL	Flag	July	RL	Flag	Aug.-Sept. [c]	RL	Flag	May [f]	RL	Flag	Aug.-Sept. [c]	RL	Flag	May [f]	RL	Flag	Aug.-Sept. [c]	RL	Flag	May [f]	RL	Flag	Aug.-Sept. [c]	RL	Flag
Enoch Valley	Enoch Valley Mine Waste Dump Location 2	42 51 56	111 23 48	MWD091-27	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-28	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-29	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-30	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-31	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-32	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-33	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-34	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-35	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-36	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-37	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-38	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-39	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-40	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-41	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-42	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-43	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-44	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-45	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-46	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-47	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-48	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-49	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-50	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-51	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-52-avg	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-52-R1	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-52-R2	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-52-R3	NA			NA			NA			NA			NA			NA			NA			NA			NA		

Table 1: Upland Soil Analytical Historical Data (mg/kg, dw) continued																										
					Beryllium						Chromium									Sulfate						Uranium		
Mine	Station	Location			2001						2001						2004 extractable [p]			1998 [a]			2004 [p]			2001		
	Name	Lat (deg min sec)	Long (deg min sec)	ID	May [b]	RL	Flag	Aug.-Sept. [c]	RL	Flag	May [b]	RL	Flag	Aug.-Sept. [c]	RL	Flag	July	RL	Flag	July	RL	Flag	July	RL	Flag	Aug.-Sept. [c]	RL	Flag
Ballard	Ballard Mine Pit #1 Overburden Dump #1	(1998/2004)	(1998/2004)	MWD080-avg	1.7		J	NS			1100		J	NS			1.6			12						46		J
		(2001) 42 50 01.00	(2001) 111 29 39.70	MWD080-R1	1.8		J	NA			1100		J	NA			NA			NA			NA			50		J
		(2001) 42 50 01.00	(2001) 111 29 39.70	MWD080-R2	1.7		J	NA			1000		J	NA			NA			NA			NA			38		J
		(2001) 42 50 01.00	(2001) 111 29 39.70	MWD080-R3	1.6		J	NA			1100		J	NA			NA			NA			NA			51		J
		42 50 16.75 / 42 49 53	111 29 35.58 / 111 29 33	MWD080-P1	NA			NA			NA			NA			1.9			5.3			10			NA		
		42 50 10.84 / 42 49 37	111 29 38.48 / 111 29 30	MWD080-P2	NA			NA			NA			NA			2.0			NA			0	10	U	NA		
		(2001) 42 50 10.84	(2001) 111 29 38.48	MWD080-P2-R1	NA			NA			NA			NA			NA			NA			NA			NA		
		(2001) 42 50 10.84	(2001) 111 29 38.48	MWD080-P2-R2	NA			NA			NA			NA			NA			NA			NA			NA		
		(2001) 42 50 10.84	(2001) 111 29 38.48	MWD080-P2-R3	NA			NA			NA			NA			NA			NA			NA			NA		
		42 50 08.31 / 42 49 59	111 29 37.98 / 111 29 46	MWD080-P3	NA			NA			NA			NA			0.60			6.3			7.4	10	U	NA		
		(2001) 42 50 08.31	(2001) 111 29 37.98	MWD080-P3-D	NA			NA			NA			NA			NA			NA			NA			NA		
		42 50 04.94 / 42 50 05	111 29 36.28 / 111 29 37	MWD080-P4	NA			NA			NA			NA			2.0			9.1			10			NA		
		(2001) 42 50 03.23	(2001) 111 29 35.25	MWD080-P5	NA			NA			NA			NA			NA			34			NA			NA		
		(2001) 42 50 03.23	(2001) 111 29 35.25	MWD080-P5-D	NA			NA			NA			NA			NA			NA			NA	.		NA		
	Ballard Mine Pit #3 Overburden Dump			MWD082-avg	NS			NS			NS			NS			0.48	0.40<x<0.57	U	NS			NS			NS		
		42 49 25	111 28 14	MWD082-P1	NA			NA			NA			NA			0.045	0.50	U	NA			10			NA		
		42 49 35	111 28 21	MWD082-P2	NA			NA			NA			NA			0.60			NA			-0.82	10	U	NA		
		42 49 42	111 28 31	MWD082-P3	NA			NA			NA			NA			0.60			NA			3.3	10	U	NA		
		42 49 34	111 28 18	MWD082-01	NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-02	NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-03	NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-04	NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-05	NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-06	NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-07	NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-08	NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-09	NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-10	NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-11	NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-12	NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-13	NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-14-avg	NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-14--R1	NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-14--R2	NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-14--R3	NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-15	NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-16	NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-17	NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-18	NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-19	NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-20	NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-21	NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-22	NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-23	NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-24	NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-25	NA			NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-26	NA			NA			NA			NA			NA			NA			NA			NA		

Table 1: Upland Soil Analytical Historical Data (mg/kg, dw) continued																											
					Beryllium						Chromium									Sulfate						Uranium		
Mine	Station	Location			2001						2001						2004 extractable [p]			1998 [a]			2004 [p]			2001		
	Name	Lat (deg min sec)	Long (deg min sec)	ID	May [b]	RL	Flag	Aug.-Sept. [c]	RL	Flag	May [b]	RL	Flag	Aug.-Sept. [c]	RL	Flag	July	RL	Flag	July	RL	Flag	July	RL	Flag	May [b]	RL	Flag
Ballard	Ballard Mine Pit #1 Overburden Dump #2			MWD081-avg	0.62		J	1.6		J	260		J	600			NS			NS			NS			16		J
		42 49 20.30	111 29 14.10	MWD081	0.62		J	NA			260		J	NA			NS			NS			NS			16		J
		42 49 34.65	111 29 25.72	MWD081-P1	NA			1.7		J	NA			530			NA			NA			NA			NA		
		42 49 31.61	111 29 13.68	MWD081-P2	NA			1.6		J	NA			630			NA			NA			NA			NA		
		42 49 21.77	111 29 20.50	MWD081-P3	NA			1.4		J	NA			640			NA			NA			NA			NA		
	Ballard Mine Pits #5 and #6 Overburden Dump	42 50 07	111 28 31	MWD084	NS			NS			NS			NS			0.035	0.50	U	NS			10			NS		
	Ballard Mine Pit #2 Overburden Dump	42 49 30.20	111 29 01.40	MWD093	1.3		J	NS			520		J	NS			NS			NS			23		J	23		J
Henry	Henry Mine North Pit Overburden Dump			MWD085-avg	1.5		J	NS			1000		J	NS			NS			NS			25		J	25		J
		42 54 23.90	111 30 28.70	MWD085	1.5		J	NS			1000		J	NS			NS			NS			25		J	25		J
		42 54 36	111 30 34	MWD085-01	NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-02	NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-03	NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-04	NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-05	NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-06	NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-07	NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-08	NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-09	NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-10	NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-11	NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-12	NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-13	NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-14	NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-15	NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-16	NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-17	NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-18	NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-19	NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-20	NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-21	NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-22	NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-23	NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-24	NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-25	NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-26-avg	NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-26-R1	NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-26-R2	NA			NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-26-R3	NA			NA			NA			NA			NA			NA			NA			NA		

Table 1: Upland Soil Analytical Historical Data (mg/kg, dw) continued																										
					Beryllium						Chromium								Sulfate						Uranium		
Mine	Station	Location			2001						2001						2004 extractable [p]		1998 [a]			2004 [p]			2001		
	Name	Lat (deg min sec)	Long (deg min sec)	ID	May [b]	RL	Flag	Aug.-Sept. [c]	RL	Flag	May [b]	RL	Flag	Aug.-Sept. [c]	RL	Flag	July	RL	Flag	July	RL	Flag	July	RL	Flag	Aug.-Sept. [c]	RL	Flag
Henry	Henry Mine Center Pit #1 Overburden Dump			MWD086-avg	1.6		J	1.8		J	1100		J	740			NS			NS			28		J	28		J
		42 52 40.50	111 28 01.40	MWD086	1.6		J	NA			1100		J	NA			NS			NS			28		J	28		J
		42 52 22.95	111 27 44.51	MWD086-P1-R1	NA			1.9		J	NA			770			NA			NA			NA			NA		
		42 52 22.95	111 27 44.51	MWD086-P1-R2	NA			1.8		J	NA			720			NA			NA			NA			NA		
		42 52 22.95	111 27 44.51	MWD086-P1-R3	NA			1.8		J	NA			720			NA			NA			NA			NA		
		42 52 42.87	111 28 11.14	MWD086-P2	NA			1.8		J	NA			740			NA			NA			NA			NA		
		42 53 11.79	111 28 56.49	MWD086-P3	NA			1.7		J	NA			750			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-01-avg	NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-01-R1	NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-01-R2	NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-01-R3	NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-02	NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-03	NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-04	NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-05	NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-06	NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-07	NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-08	NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-09	NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-10	NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-11	NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-12	NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-13	NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-14	NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-15	NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-16	NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-17	NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-18	NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-19	NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-20	NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-21	NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-22	NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-23	NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-24	NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-25	NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-26	NA			NA			NA			NA			NA			NA			NA			NA		
	Henry Mine South Pit Overburden Dump	42 51 39.30	111 27 01.20	MWD090	1.2		J	NS			800		J	NS			NS			NS			39		J	39		J

Table 1: Upland Soil Analytical Historical Data (mg/kg, dw) continued																											
					Beryllium						Chromium									Sulfate						Uranium		
Mine	Station	Location			2001						2001						2004 extractable[p]			1998[a]			2004[p]			2001		
	Name	Lat (deg min sec)	Long (deg min sec)	ID	May[b]	RL	Flag	Aug.-Sept.[c]	RL	Flag	May[b]	RL	Flag	Aug.-Sept.[c]	RL	Flag	July	RL	Flag	July	RL	Flag	July	RL	Flag	Aug.-Sept.[c]	RL	Flag
Enoch Valley	Enoch Valley Mine Waste Dumps Combined			MWD091-avg	1.9		J	NS			1400		J	NS			NS			NS			41		J	41		J
	Enoch Valley Mine South Dump	42 52 27.70	111 24 17.70	MWD091-P1	1.7		J	NA			1300		J	NA			NA			NA			39		J	39		J
		42 51 55.60	111 23 39.60	MWD091-P2	2.0		J	NA			1400		J	NA			NA			NA			42		J	42		J
	Enoch Valley Mine North Dump	42 53.30.50	111 25.42.80	MWD092	1.5		J	NS			940		J	NS			NS			NS			27		J	27		J
	Enoch Valley Mine Waste Dump Location 1	42 53 34	111 25 46	MWD091-01	NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-02	NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-03	NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-04	NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-05	NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-06	NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-07	NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-08	NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-09	NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-10	NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-11	NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-12	NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-13	NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-14-avg	NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-14-R1	NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-14-R2	NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-14-R3	NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-15	NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-16	NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-17	NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-18	NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-19	NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-20	NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-21	NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-22	NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-23	NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-24	NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-25	NA			NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-26	NA			NA			NA			NA			NA			NA			NA			NA		

Table 1: Upland Soil Analytical Historical Data (mg/kg, dw) continued																											
					Beryllium						Chromium									Sulfate						Uranium		
Mine	Station	Location			2001						2001						2004 extractable [p]			1998 [a]			2004 [p]			2001		
	Name	Lat (deg min sec)	Long (deg min sec)	ID	May [b]	RL	Flag	Aug.-Sept. [c]	RL	Flag	May [b]	RL	Flag	Aug.-Sept. [c]	RL	Flag	July	RL	Flag	July	RL	Flag	July	RL	Flag	Aug.-Sept. [c]	RL	Flag
Enoch Valley	Enoch Valley Mine Waste Dump Location 2	42 51 56	111 23 48	MWD091-27	NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-28	NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-29	NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-30	NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-31	NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-32	NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-33	NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-34	NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-35	NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-36	NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-37	NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-38	NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-39	NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-40	NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-41	NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-42	NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-43	NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-44	NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-45	NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-46	NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-47	NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-48	NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-49	NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-50	NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-51	NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-52-avg	NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-52-R1	NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-52-R2	NA			NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-52-R3	NA			NA			NA			NA			NA			NA			NA			NA		

Table 1: Upland Soil Analytical Historical Data (mg/kg, dw) continued

Mine	Station	Location			Nickel											Potassium						Sodium											
					1998[a]			2001						2004 extractable			1998			2004 (meq/L)			1998			2001					2004 (meq/L)		
	Name	Lat (deg min sec)	Long (deg min sec)	ID	July	RL	Flag	May[b]	RL	Flag	Aug.-Sept.[c]	RL	Flag	July	RL	Flag	July	RL	Flag	July	RL	Flag	July	RL	Flag	May[b]	RL	Flag	Aug.-Sept.[c]	RL	Flag	July	RL	Flag
Ballard	Ballard Mine Pit #1 Overburden Dump #1	(1998/2004)	(1998/2004)	MWD080-avg	190			270			NS			19			3300			0.25			1200			1600		J	NS			0.56	3.0	U
		(2001) 42 50 01.00	(2001) 111 29 39.70	MWD080-R1	NA			270			NA			NA			NA			NA			NA			1600		J	NA			NA		
		(2001) 42 50 01.00	(2001) 111 29 39.70	MWD080-R2	NA			260			NA			NA			NA			NA			NA			1500		J	NA			NA		
		(2001) 42 50 01.00	(2001) 111 29 39.70	MWD080-R3	NA			280			NA			NA			NA			NA			NA			1600		J	NA			NA		
		42 50 16.75 / 42 49 53	111 29 35.58 / 111 29 33	MWD080-P1	69			NA			NA			36			3100			0.60			820			NA			NA			1.7	3.0	U
		42 50 10.84 / 42 49 37	111 29 38.48 / 111 29 30	MWD080-P2	NA			NA			NA			12			NA			0.060			NA			NA			NA			0.26	3.0	U
		(2001) 42 50 10.84	(2001) 111 29 38.48	MWD080-P2-R1	300			NA			NA			NA			3600			NA			1500			NA			NA			NA		
		(2001) 42 50 10.84	(2001) 111 29 38.48	MWD080-P2-R2	270			NA			NA			NA			3800			NA			1800			NA			NA			NA		
		(2001) 42 50 10.84	(2001) 111 29 38.48	MWD080-P2-R3	120			NA			NA			NA			3700			NA			1400			NA			NA			NA		
		42 50 08.31 / 42 49 59	111 29 37.98 / 111 29 46	MWD080-P3	240			NA			NA			6.5			3300			0.23			810			NA			NA			0.14	3.0	U
		(2001) 42 50 08.31	(2001) 111 29 37.98	MWD080-P3-D	280			NA			NA			NA			3200			NA			800			NA			NA			NA		
		42 50 04.94 / 42 50 05	111 29 36.28 / 111 29 37	MWD080-P4	140			NA			NA			21			3600			0.13			1600			NA			NA			0.15	3.0	U
		(2001) 42 50 03.23	(2001) 111 29 35.25	MWD080-P5	220			NA			NA			NA			2700			NA			950			NA			NA			NA		
		(2001) 42 50 03.23	(2001) 111 29 35.25	MWD080-P5-D	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
	Ballard Mine Pit #1 Overburden Dump #2			MWD081-avg	NS			160			190		J	NS			NS			NS			NS			440		J	1100		R	NS		
		42 49 20.30	111 29 14.10	MWD081	NS			160			NA			NS			NS			NS			NS			440		J	NA			NS		
		42 49 34.65	111 29 25.72	MWD081-P1	NA			NA			180		J	NA			NA			NA			NA			NA			1200		R	NA		
		42 49 31.61	111 29 13.68	MWD081-P2	NA			NA			200		J	NA			NA			NA			NA			NA			1300		R	NA		
		42 49 21.77	111 29 20.50	MWD081-P3	NA			NA			200		J	NA			NA			NA			NA			NA			940		R	NA		
	Ballard Mine Pit #3 Overburden Dump			MWD082-avg	NS			NS			NS			13			NS			0.24			NS			NS			NS			0.24	3.0	U
		42 49 25	111 28 14	MWD082-P1	NA			NA			NA			19			NA			0.38			NA			NA			NA			0.18	3.0	U
		42 49 35	111 28 21	MWD082-P2	NA			NA			NA			13			NA			0.10			NA			NA			NA			0.25	3.0	U
		42 49 42	111 28 31	MWD082-P3	NA			NA			NA			8.3			NA			0.25			NA			NA			NA			0.28	3.0	U
	Ballard Mine Pits #5 and #6 Overburden Dump	42 50 07	111 28 31	MWD084	NS			NS			NS			21			NS			0.51			NS			NS			NS			0.10	3.0	U
	Ballard Mine Pit #2 Overburden Dump	42 49.30.20	111 29 01.40	MWD093	NS			210			NS			NS			NS			NS			NS			770			NS			NS		
Henry	Henry Mine North Pit Overburden Dump	42 54 23.90	111 30 28.70	MWD085	NS			230			NS			NS			NS			NS			NS			1000		J	NS			NS		
	Henry Mine Pit #1 Overburden Dump			MWD086-avg	NS			330			300		J	NS			NS			NS			NS			1600		J	710		R	NS		
		42 52 40.50	111 28 01.40	MWD086	NS			330			NA			NS			NS			NS			NS			1600		J	NA			NS		
		42 52 22.95	111 27 44.51	MWD086-P1-R1	NA			NA			280		J	NA			NA			NA			NA			NA			790		R	NA		
		42 52 22.95	111 27 44.51	MWD086-P1-R2	NA			NA			290		J	NA			NA			NA			NA			NA			790		R	NA		
		42 52 22.95	111 27 44.51	MWD086-P1-R3	NA			NA			290		J	NA			NA			NA			NA			NA			660		R	NA		
		42 52 42.87	111 28 11.14	MWD086-P2	NA			NA			320		J	NA			NA			NA			NA			NA			730		R	NA		
		42 53 11.79	111 28 56.49	MWD086-P3	NA			NA			290		J	NA			NA			NA			NA			NA			650		R	NA		
	Henry Mine South Pit Overburden Dump	42 51 39.30	111 27 01.20	MWD090	NS			420			NS			NS			NS			NS			NS			1500		J	NS			NS		
Enoch Valley	Enoch Valley Mine South Dump			MWD091-avg	NS			200			NS			NS			NS			NS			NS			1100		J	NS			NS		
		42 52 27.70	111 24 17.70	MWD091-P1	NA			270			NA			NA			NA			NA			NA			1200		J	NA			NA		
		42 51 55.60	111 23 39.60	MWD091-P2	NA			120			NA			NA			NA			NA			NA			960		J	NA			NA		
	Enoch Valley Mine North Dump	42 53 30.50	111 25 42.80	MWD092	NS			400			NS			NS			NS			NS			NS			1300		J	NS			NS		

Table 1: Upland Soil Analytical Historical Data (mg/kg, dw) continued																											
					Vanadium												Zinc										
Mine	Station	Location			1998[a]			2001						2004 extractable			1998[a]			2001						2004		
	Name	Lat (deg min sec)	Long (deg min sec)	ID	July	RL	Flag	May[b]	RL	Flag	Aug.-Sept.[c]	RL	Flag	Sept.	RL	Flag	July	RL	Flag	May[b]	RL	Flag	Aug.-Sept.[c]	RL	Flag	July	RL	Flag
Ballard	Ballard Mine Pit #1 Overburden Dump #1	(1998/2004)	(1998/2004)	MWD080-avg	220			780			NS			7.4			1200			1500			NS			160		
		(2001) 42 50 01.00	(2001) 111 29 39.70	MWD080-R1	NA			800			NA			NA			NA			1600			NA			NA		
		(2001) 42 50 01.00	(2001) 111 29 39.70	MWD080-R2	NA			740			NA			NA			NA			1400			NA			NA		
		(2001) 42 50 01.00	(2001) 111 29 39.70	MWD080-R3	NA			800			NA			NA			NA			1600			NA			NA		
		42 50 16.75 / 42 49 53	111 29 35.58 / 111 29 33	MWD080-P1	140			NA			NA			6.5			900			NA			NA			210		
		42 50 10.84 / 42 49 37	111 29 38.48 / 111 29 30	MWD080-P2	NA			NA			NA			14			NA			NA			NA			220		
		(2001) 42 50 10.84	(2001) 111 29 38.48	MWD080-P2-R1	370			NA			NA			NA			1300			NA			NA			NA		
		(2001) 42 50 10.84	(2001) 111 29 38.48	MWD080-P2-R2	370			NA			NA			NA			1300			NA			NA			NA		
		(2001) 42 50 10.84	(2001) 111 29 38.48	MWD080-P2-R3	180			NA			NA			NA			1000			NA			NA			NA		
		42 50 08.31 / 42 49 59	111 29 37.98 / 111 29 46	MWD080-P3	230			NA			NA			4.0			1200			NA			NA			57		
		(2001) 42 50 08.31	(2001) 111 29 37.98	MWD080-P3-D	250			NA			NA			NA			1200			NA			NA			NA		
		42 50 04.94 / 42 50 05	111 29 36.28 / 111 29 37	MWD080-P4	190			NA			NA			5.1			1400			NA			NA			140		
		(2001) 42 50 03.23	(2001) 111 29 35.25	MWD080-P5	200			NA			NA			NA			1400			NA			NA			NA		
		(2001) 42 50 03.23	(2001) 111 29 35.25	MWD080-P5-D	NA			NA			NA			NA			NA			NA			NA			NA		
	Ballard Mine Pit #1 Overburden Dump #2			MWD081-avg	NS			95			470		J	NS			NS			390			850		J	NS		
		42 49 20.30	111 29 14.10	MWD081	NS			95			NA			NS			NS			390			NA			NS		
		42 49 34.65	111 29 25.72	MWD081-P1	NA			NA			450		J	NA			NA			NA			760		J	NA		
		42 49 31.61	111 29 13.68	MWD081-P2	NA			NA			530		J	NA			NA			NA			930		J	NA		
		42 49 21.77	111 29 20.50	MWD081-P3	NA			NA			420		J	NA			NA			NA			860		J	NA		
	Ballard Mine Pit #3 Overburden Dump			MWD082-avg	NS			NS			NS			5.9			NS			NS			NS			120		
		42 49 25	111 28 14	MWD082-P1	NA			NA			NA			1.6			NA			NA			NA			140		
		42 49 35	111 28 21	MWD082-P2	NA			NA			NA			11			NA			NA			NA			130		
		42 49 42	111 28 31	MWD082-P3	NA			NA			NA			4.8			NA			NA			NA			97		
	Ballard Mine Pits #5 and #6 Overburden Dump	42 50 07	111 28 31	MWD084	NS			NS			NS			3.2			NS			NS			NS			120		
	Ballard Mine Pit #2 Overburden Dump	42 49.30.20	111 29 01.40	MWD093	NS			160			NS			NS			NS			840			NS			NS		
Henry	Henry Mine North Pit Overburden Dump	42 54 23.90	111 30 28.70	MWD085	NS			310			NS			NS			NS			580			NS			NS		
	Henry Mine Pit #1 Overburden Dump			MWD086-avg	NS			260			290		J	NS			NS			1200			1000		J	NS		
		42 52 40.50	111 28 01.40	MWD086	NS			260			NA			NS			NS			1200			NA			NS		
		42 52 22.95	111 27 44.51	MWD086-P1-R1	NA			NA			260		J	NA			NA			NA			1000		J	NA		
		42 52 22.95	111 27 44.51	MWD086-P1-R2	NA			NA			260		J	NA			NA			NA			1000		J	NA		
		42 52 22.95	111 27 44.51	MWD086-P1-R3	NA			NA			240		J	NA			NA			NA			970		J	NA		
		42 52 42.87	111 28 11.14	MWD086-P2	NA			NA			290		J	NA			NA			NA			1100		J	NA		
		42 53 11.79	111 28 56.49	MWD086-P3	NA			NA			330		J	NA			NA			NA			920		J	NA		
	Henry Mine South Pit Overburden Dump	42 51 39.30	111 27 01.20	MWD090	NS			250			NS			NS			NS			1500			NS			NS		
Enoch Valley	Enoch Valley Mine South Dump			MWD091-avg	NS			420			NS			NS			NS			680			NS			NS		
		42 52 27.70	111 24 17.70	MWD091-P1	NA			320			NA			NA			NA			1000			NA			NA		
		42 51 55.60	111 23 39.60	MWD091-P2	NA			510			NA			NA			NA			350			NA			NA		
	Enoch Valley Mine North Dump	42 53 30.50	111 25 42.80	MWD092	NS			410			NS			NS			NS			1700			NS			NS		

Table 1: Upland Soil Analytical Historical Data (mg/kg, dw) continued																										
					Nitrate			Copper									Lead						Mercury				
Mine	Station	Location			1998			2001						2004 extractable			2001						2001				
	Name	Lat (deg min sec)	Long (deg min sec)	ID	July	RL	Flag	May[b]	RL	Flag	Aug.-Sept.[c]	RL	Flag	July	RL	Flag	May[b]	RL	Flag	Aug.-Sept.[c]	RL	Flag	May[b]	RL	Flag	Aug.-Sept.[c]	RL	Flag
Ballard	Ballard Mine Pit #1 Overburden Dump #1	(1998/2004)	(1998/2004)	MWD080-avg	1.5	1.6<x<1.7	U	150		J	NS			12			10			NS			0.52		J	NS		
		(2001) 42 50 01.00	(2001) 111 29 39.70	MWD080-R1	NA			150		J	NA			NA			10			NA			0.56		J	NA		
		(2001) 42 50 01.00	(2001) 111 29 39.70	MWD080-R2	NA			150		J	NA			NA			9.5			NA			0.50		J	NA		
		(2001) 42 50 01.00	(2001) 111 29 39.70	MWD080-R3	NA			150		J	NA			NA			10			NA			0.50		J	NA		
		42 50 16.75 / 42 49 53	111 29 35.58 / 111 29 33	MWD080-P1	0.80			NA			NA			18			NA			NA			NA			NA		
		42 50 10.84 / 42 49 37	111 29 38.48 / 111 29 30	MWD080-P2	0.70			NA			NA			6.8			NA			NA			NA			NA		
		(2001) 42 50 10.84	(2001) 111 29 38.48	MWD080-P2-R1	NA			NA			NA			NA			NA			NA			NA			NA		
		(2001) 42 50 10.84	(2001) 111 29 38.48	MWD080-P2-R2	NA			NA			NA			NA			NA			NA			NA			NA		
		(2001) 42 50 10.84	(2001) 111 29 38.48	MWD080-P2-R3	NA			NA			NA			NA			NA			NA			NA			NA		
		42 50 08.31 / 42 49 59	111 29 37.98 / 111 29 46	MWD080-P3	0.26	0.40	U	NA			NA			7.2			NA			NA			NA			NA		
		(2001) 42 50 08.31	(2001) 111 29 37.98	MWD080-P3-D	NA			NA			NA			NA			NA			NA			NA			NA		
		42 50 04.94 / 42 50 05	111 29 36.28 / 111 29 37	MWD080-P4	0.70			NA			NA			15			NA			NA			NA			NA		
		(2001) 42 50 03.23	(2001) 111 29 35.25	MWD080-P5	5.8			NA			NA			NA			NA			NA			NA			NA		
		(2001) 42 50 03.23	(2001) 111 29 35.25	MWD080-P5-D	NA			NA			NA			NA			NA			NA			NA			NA		
	Ballard Mine Pit #1 Overburden Dump #2			MWD081-avg	NS			87		J	83		J	NS			9.8			26		R	0.21		J	0.38		
		42 49 20.30	111 29 14.10	MWD081	NS			87		J	NA			NS			9.8			NA			0.21		J	NA		
		42 49 34.65	111 29 25.72	MWD081-P1	NA			NA			79		J	NA			NA			33		R	NA			0.36		
		42 49 31.61	111 29 13.68	MWD081-P2	NA			NA			84		J	NA			NA			29		R	NA			0.38		
		42 49 21.77	111 29 20.50	MWD081-P3	NA			NA			87		J	NA			NA			17		R	NA			0.39		
	Ballard Mine Pit #3 Overburden Dump			MWD082-avg	NS			NS			NS			11			NS			NS			NS			NS		
		42 49 25	111 28 14	MWD082-P1	NA			NA			NA			15			NA			NA			NA			NA		
		42 49 35	111 28 21	MWD082-P2	NA			NA			NA			8.3			NA			NA			NA			NA		
		42 49 42	111 28 31	MWD082-P3	NA			NA			NA			9.4			NA			NA			NA			NA		
	Ballard Mine Pits #5 and #6 Overburden Dump	42 50 07	111 28 31	MWD084	NS			NS			NS			13			NS			NS			NS			NS		
	Ballard Mine Pit #2 Overburden Dump	42 49.30.20	111 29 01.40	MWD093	NS			50		J	NS			NS			8.0			NS			0.27		J	NS		
Henry	Henry Mine North Pit Overburden Dump	42 54 23.90	111 30 28.70	MWD085	NS			140		J	NS			NS			11			NS			0.57		J	NS		
	Henry Mine Pit #1 Overburden Dump			MWD086-avg	NS			120		J	120		J	NS			5.4	7.5	U	11		R	0.58		J	0.50		
		42 52 40.50	111 28 01.40	MWD086	NS			120		J	NA			NA			5.4	7.5	U	NA			0.58		J	NA		
		42 52 22.95	111 27 44.51	MWD086-P1-R1	NA			NA			130		J	NA			NA			12		R	NA			0.54		
		42 52 22.95	111 27 44.51	MWD086-P1-R2	NA			NA			140		J	NA			NA			12		R	NA			0.53		
		42 52 22.95	111 27 44.51	MWD086-P1-R3	NA			NA			130		J	NA			NA			11		R	NA			0.54		
		42 52 42.87	111 28 11.14	MWD086-P2	NA			NA			120		J	NA			NA			10		R	NA			0.49		
		42 53 11.79	111 28 56.49	MWD086-P3	NA			NA			120		J	NA			NA			11		R	NA			0.47		
	Henry Mine South Pit Overburden Dump	42 51 39.30	111 27 01.20	MWD090	NS			120		J	NS			NS			2.8	7.5	U	NS			0.69		J	NS		
Enoch Valley	Enoch Valley Mine South Dump			MWD091-avg	NS			170		J	NS			NS			8.0	5.3<X<7.8	U	NS			0.82		J	NS		
		42 52 27.70	111 24 17.70	MWD091-P1	NA			170		J	NA			NA			7.8		U	NA			0.87		J	NA		
		42 51 55.60	111 23 39.60	MWD091-P2	NA			170		J	NA			NA			8.1		U	NA			0.76		J	NA		
	Enoch Valley Mine North Dump	42 53 30.50	111 25 42.80	MWD092	NS			110		J	NS			NS			3.8	7.5	U	NS			0.47		J	NS		

Table 1: Upland Soil Analytical Historical Data (mg/kg, dw) continued

Mine	Station	Location			Silver						Thallium						Molybdenum						Nitrate/Nitrite		
					2001						2001						2001			2004 extractable			2004 extractable		
	Name	Lat (deg min sec)	Long (deg min sec)	ID	May[b]	RL	Flag	Aug.-Sept.[c]	RL	Flag	May[b]	RL	Flag	Aug.-Sept.[c]	RL	Flag	May[b]	RL	Flag	July	RL	Flag	July	RL	Flag
Ballard	Ballard Mine Pit #1 Overburden Dump #1	(1998/2004)	(1998/2004)	MWD080-avg	9.0		J	NS			-10	2.0	UJ	NS			26			0.021	0.50	U	1.7	0.90<x<1.8	U
		(2001) 42 50 01.00	(2001) 111 29 39.70	MWD080-R1	8.9		J	NA			-12	2.0	UJ	NA			27			NA			NA		
		(2001) 42 50 01.00	(2001) 111 29 39.70	MWD080-R2	9.1		J	NA			-17	2.0	UJ	NA			24			NA			NA		
		(2001) 42 50 01.00	(2001) 111 29 39.70	MWD080-R3	9.1		J	NA			-2.1	2.0	UJ	NA			28			NA			NA		
		42 50 16.75 / 42 49 53	111 29 35.58 / 111 29 33	MWD080-P1	NA			NA			NA			NA			NA			0.035	0.50	U	1.8		
		42 50 10.84 / 42 49 37	111 29 38.48 / 111 29 30	MWD080-P2	NA			NA			NA			NA			NA			0.025	0.50	U	1.5	1.8	U
		(2001) 42 50 10.84	(2001) 111 29 38.48	MWD080-P2-R1	NA			NA			NA			NA			NA			NA			NA		
		(2001) 42 50 10.84	(2001) 111 29 38.48	MWD080-P2-R2	NA			NA			NA			NA			NA			NA			NA		
		(2001) 42 50 10.84	(2001) 111 29 38.48	MWD080-P2-R3	NA			NA			NA			NA			NA			NA			NA		
		42 50 08.31 / 42 49 59	111 29 37.98 / 111 29 46	MWD080-P3	NA			NA			NA			NA			NA			0.010	0.50	U	1.9		
		(2001) 42 50 08.31	(2001) 111 29 37.98	MWD080-P3-D	NA			NA			NA			NA			NA			NA			NA		
		42 50 04.94 / 42 50 05	111 29 36.28 / 111 29 37	MWD080-P4	NA			NA			NA			NA			NA			0.015	0.50	U	1.6	1.8	U
		(2001) 42 50 03.23	(2001) 111 29 35.25	MWD080-P5	NA			NA			NA			NA			NA			NA			NA		
		(2001) 42 50 03.23	(2001) 111 29 35.25	MWD080-P5-D	NA			NA			NA			NA			NA			NA			NA		
	Ballard Mine Pit #1 Overburden Dump #2			MWD081-avg	0.53		J	4.1			-36	2.0	UJ	1.4		J	15			NS			NS		
		42 49 20.30	111 29 14.10	MWD081	0.53		J	NA			-36	2.0	UJ	NA			15			NS			NS		
		42 49 34.65	111 29 25.72	MWD081-P1	NA			4.5			NA			1.5		J	NA			NA			NA		
		42 49 31.61	111 29 13.68	MWD081-P2	NA			3.3			NA			1.4		J	NA			NA			NA		
		42 49 21.77	111 29 20.50	MWD081-P3	NA			4.4			NA			1.4		J	NA			NA			NA		
	Ballard Mine Pit #3 Overburden Dump			MWD082-avg	NS			NS			NS			NS			NS			0.017	0.50	U	0.90	1.8	U
		42 49 25	111 28 14	MWD082-P1	NA			NA			NA			NA			NA			0.025	0.50	U	0.80	1.8	U
		42 49 35	111 28 21	MWD082-P2	NA			NA			NA			NA			NA			0.015	0.50	U	0.80	1.8	U
		42 49 42	111 28 31	MWD082-P3	NA			NA			NA			NA			NA			0.010	0.50	U	1.1	1.8	U
	Ballard Mine Pits #5 and #6 Overburden Dump	42 50 07	111 28 31	MWD084	NS			NS			NS			NS			NS			0.0050	0.50	U	1.7	1.8	U
	Ballard Mine Pit #2 Overburden Dump	42 49.30.20	111 29 01.40	MWD093	0.59		J	NS			-23	2.0	UJ	NS			14			NS			NS		
Henry	Henry Mine North Pit Overburden Dump	42 54 23.90	111 30 28.70	MWD085	4.4		J	NS			-22	2.0	UJ	NS			11			NS			NS		
	Henry Mine Pit #1 Overburden Dump			MWD086-avg	2.0		J	2.9			-9.3	2.0	UJ	1.4		J	23			NS			NS		
		42 52 40.50	111 28 01.40	MWD086	2.0		J	NA			-9.3	2.0	UJ	NA			23			NS			NS		
		42 52 22.95	111 27 44.51	MWD086-P1-R1	NA			4.2			NA			1.0		J	NA			NA			NA		
		42 52 22.95	111 27 44.51	MWD086-P1-R2	NA			4.0			NA			1.1		J	NA			NA			NA		
		42 52 22.95	111 27 44.51	MWD086-P1-R3	NA			3.9			NA			1.1		J	NA			NA			NA		
		42 52 42.87	111 28 11.14	MWD086-P2	NA			3.6			NA			1.4		J	NA			NA			NA		
		42 53 11.79	111 28 56.49	MWD086-P3	NA			0.87			NA			1.6		J	NA			NA			NA		
	Henry Mine South Pit Overburden Dump	42 51 39.30	111 27 01.20	MWD090	7.2		J	NS			NS			NS			39			NS			NS		
Enoch Valley	Enoch Valley Mine South Dump			MWD091-avg	5.3		J	NS			-16	2.0	UJ	NS			9.1			NS			NS		
		42 52 27.70	111 24 17.70	MWD091-P1	4.4		J	NA			-24	2.0	UJ	NA			12			NA			NA		
		42 51 55.60	111 23 39.60	MWD091-P2	6.2		J	NA			-7.8	2.0	UJ	NA			6.2			NA			NA		
	Enoch Valley Mine North Dump	42 53 30.50	111 25 42.80	MWD092	5.9		J	NS			NS			NS			41			NS			NS		

Notes:

Laboratory duplicates (D, D1) and field replicates (R1, R2, R3) are shown as unaveraged as well as averaged where appropriate.

Coordinates are in Geographic format (deg min decimal seconds) and use datum NAD27, except for 2001 data which uses WGS84.

Data qualifier definitions are:

a - Data were analyzed in the MWH, 1999, *Final 1998 Regional Investigation Report: Southesast Idaho Phosphate Resource Area Selenium Project*.
soils were sampled at 0-2 inches.

b - Data were utilized in the MWH, 2002, *Final - Spring 2001 Area-Wide Investigation Report, Southeast idaho Phosphate resource Area Selenium Project.*
soils were sampled at 0-12 inches.

c - Data were utilized in the MWH, 2002, *Final - Summer 2001 Area-Wide Investigation Data Summary, Southeast Idaho Phosphate Resource Area Selenium Project.*
soils were sampled at 0-12 inches.

p - Data were utilized in the *Phase 1 Investigation for Enoch Valley, Henry, and Ballard Mines, Draft Interim Phase 1 Sis Evaluation Summary.*
soils were sampled at 0-2 inches.

(U) - The material was analyzed for, but was not detected above the level of the associated value. The associated value is the sample reporting limit.

(J) - The result is an estimated quantity.

(R) - The data are unusable.

(UJ) - The material was analyzed for, but was not detected above the level of the associated value. The result is an estimate and may be inaccurate or imprecise.

RL - Reporting Limit.

NA - Not Applicable.

NS - Not Sampled.

Table 2: Enoch Valley Mine - Upland Soil Analytical Historical Data (mg/kg, dw)[a]																									
			Selenium			Extractable Selenium			Cadmium			Nickel			Vanadium			Zinc			Calcium			Iron		
			2000			2000			2000			2000			2000			2000			2000			2000		
ID	Waste Dump	Soil Type	Summer	RL	Flag	Summer	RL	Flag	Summer	RL	Flag	Summer	RL	Flag	Summer	RL	Flag	Summer	RL	Flag	Summer	RL	Flag	Summer	RL	Flag
Bat Cave TOST	NA	Top Soil Stockpile	1.1			3.4	10	U	3.5			39			64			140			7100			21000		
BLSH02	NA	Black Shale	360			1500			58			140			490			540			120000			19000		
BLSH03-avg	NA	Black Shale	9.6			23			43			99			320			410			78000			20000		
BLSH03	NA	Black Shale	10			23			43			99			320			410			78000			20000		
BLSH03-dup	NA	Black Shale	9.1			NA			NA			NA			NA			NA			NA			NA		
BLSH01	NA	Black Shale	100			1500			89			330			830			1800			130000			17000		
BRSH05-avg	MWD091	Brown Shale	25			14			24			190			240			860			67000			22000		
BRSH05-R1	MWD091	Brown Shale	28			13			25			190			240			870			67000			21000		
BRSH05-R2	MWD091	Brown Shale	25			16			24			190			240			850			67000			22000		
BRSH05-R3	MWD091	Brown Shale	22			13			24			200			240			870			67000			22000		
BRSH06-avg	MWD091	Brown Shale	27			14			48			240			340			1000			120000			20000		
BRSH06	MWD091	Brown Shale	30			14			48			240			340			1000			120000			20000		
BRSH06-dup	MWD091	Brown Shale	23			NA			NA			NA			NA			NA			NA			NA		
BRSH07	MWD091	Brown Shale	38			20			44			180			230			790			100000			20000		
BRSH08	MWD091	Brown Shale	33			470			35			170			300			800			72000			20000		
BRSH09	MWD091	Brown Shale	21			9.7	10	U	45			260			320			1200			99000			20000		
BRSH01	MWD091	Brown Shale	1.0			-6.0	10	U	5.6			39			63			180			9900			19000		
BRSH02	MWD091	Brown Shale	13			31			46			190			400			1200			110000			17000		
BRSH03-avg	MWD091	Brown Shale	13			11	6.0<x<11	U	19			180			170			650			42000			21000		
BRSH03	MWD091	Brown Shale	13			12			19			180			170			650			42000			21000		
BRSH03-dup	MWD091	Brown Shale	NA			9.0	10	U	NA			NA			NA			NA			NA			NA		
BRSH04-avg	MWD091	Brown Shale	23			31			38			260			270			1200			130000			17000		
BRSH04-R1	MWD091	Brown Shale	20			25			40			270			270			1200			130000			17000		
BRSH04-R2	MWD091	Brown Shale	23			28			35			270			280			1100			130000			18000		
BRSH04-R3	MWD091	Brown Shale	26			40			38			250			260			1200			130000			17000		
CHSH01	MWD092	Cherty Shale	92			52			29			220			280			870			90000			20000		
CHSH02	MWD092	Cherty Shale	100			200			44			360			250			1700			92000			20000		
CHSH03	MWD092	Cherty Shale	41			71			42			260			390			1500			71000			21000		
CHSH04	MWD092	Cherty Shale	100			290			74			250			570			1400			130000			18000		
CHSH05	MWD092	Cherty Shale	41			59			48			190			440			990			110000			21000		
CHSH06	MWD092	Cherty Shale	47			260			52			270			390			1300			110000			21000		
Middle West TOST-avg	NA	Top Soil Stockpile	2.2			3.8	10	U	4.9			39			71			130			8500			24000		
Middle West TOST	NA	Top Soil Stockpile	2.2			3.8	10	U	4.7			38			70			130			8700			25000		
Middle West TOST-dup	NA	Top Soil Stockpile	NA			NA			5.0			39			72			130			8300			23000		
SRBG01	NA	Background	1.2			3.3	10	U	9.2			44			63			290			23000			17000		
SRBG02	NA	Background	3.6			2.6	10	U	85			150			670			1500			130000			16000		
SRBG03	NA	Background	3.3			3.9	10	U	82			480			720			3100			150000			20000		
SRBG04	NA	Background	2.4			3.9	10	U	15			53			63			340			10000			19000		
SRBG05-avg	NA	Background	2.3			3.3	10	U	13			58			71			380			16000			21000		
SRBG05	NA	Background	2.3			3.8	10	U	13			58			71			380			16000			21000		
SRBG05-dup	NA	Background	NA			2.7	10	U	NA			NA			NA			NA			NA			NA		
SRBG06-avg	NA	Background	2.4			2.8	10	U	64			51			230			480			130000			14000		
SRBG06-R1	NA	Background	2.4			3.4	10	U	63			50			220			480			120000			13000		
SRBG06-R2	NA	Background	2.3			2.6	10	U	65			52			230			490			130000			14000		
SRBG06-R3	NA	Background	2.4			2.5	10	U	65			51			250			480			130000			15000		
TCOC26-D	MWD091/MWD092	Top Soil Cover	26			78			12			89			140			330			28000			19000		
TOCO35-D	MWD091/MWD092	Top Soil Cover	120			250			26			270			320			1000			92000			23000		

Table 2: Enoch Valley Mine - Upland Soil Analytical Historical Data (mg/kg, dw)[a] continued																									
			Selenium			Extractable Selenium			Cadmium			Nickel			Vanadium			Zinc			Calcium			Iron		
			2000			2000			2000			2000			2000			2000			2000			2000		
ID	Waste Dump	Soil Type	Summer	RL	Flag	Summer	RL	Flag	Summer	RL	Flag	Summer	RL	Flag	Summer	RL	Flag	Summer	RL	Flag	Summer	RL	Flag	Summer	RL	Flag
TOCO35-S	MWD091/MWD092	Top Soil Cover	19			55			10			82			110			350			27000			23000		
TOCO38-D	MWD091/MWD092	Top Soil Cover	60			340			30			450			420			1700			110000			23000		
TOCO38-S	MWD091/MWD092	Top Soil Cover	14			120			14			140			130			620			34000			24000		
TOCO42-D	MWD091/MWD092	Top Soil Cover	41			170			30			320			310			1400			84000			22000		
TOCO42-S	MWD091/MWD092	Top Soil Cover	7.2			30			8.1			99			93			400			20000			26000		
TOCO43-D	MWD091/MWD092	Top Soil Cover	10			45			7.9			110			91			430			22000			23000		
TOCO43-S	MWD091/MWD092	Top Soil Cover	2.5			9.7	10	U	4.7			62			61			210			11000			22000		
TOCO44-D	MWD091/MWD092	Top Soil Cover	81			540			20			220			290			1000			72000			24000		
TOCO44-S-avg	MWD091/MWD092	Top Soil Cover	24			120			8.4			120			110			470			23000			25000		
TOCO44-S	MWD091/MWD092	Top Soil Cover	24			120			8.6			120			110			470			24000			25000		
TOCO44-S-dup	MWD091/MWD092	Top Soil Cover	NA			110			8.2			120			100			460			22000			24000		
TOCO46-D	MWD091/MWD092	Top Soil Cover	15			23			13			56			140			190			48000			26000		
TOCO46-S	MWD091/MWD092	Top Soil Cover	5.2			18			6.6			44			89			150			16000			27000		
TOCO48-D-avg	MWD091/MWD092	Top Soil Cover	52			150			26			110			270			420			59000			24000		
TOCO48-D	MWD091/MWD092	Top Soil Cover	51			150			26			110			270			420			59000			24000		
TOCO48-D-dup	MWD091/MWD092	Top Soil Cover	53			NA			NA			NA			NA			NA			NA			NA		
TOCO48-S	MWD091/MWD092	Top Soil Cover	9.1			21			3.9			81			68			260			8100			26000		
TOCO49-S	MWD091/MWD092	Top Soil Cover	1.3			5.3	10	U	3.7			39			56			120			6300			29000		
TOCO50-D	MWD091/MWD092	Top Soil Cover	5.0			35			18			99			110			680			49000			19000		
TOCO50-S	MWD091/MWD092	Top Soil Cover	3.6			39			7.8			59			84			290			19000			24000		
TOCO51-D-avg	MWD091/MWD092	Top Soil Cover	130			470			36.0			120			290			490			70000			20000		
TOCO51-D-R1	MWD091/MWD092	Top Soil Cover	130			450			36			120			290			500			68000			20000		
TOCO51-D-R2	MWD091/MWD092	Top Soil Cover	120			540			36			120			300			480			74000			21000		
TOCO51-D-R3	MWD091/MWD092	Top Soil Cover	130			420			36			120			280			490			67000			20000		
TOCO51-S-avg	MWD091/MWD092	Top Soil Cover	30			200			10			63			110			220			21000			23000		
TOCO51-S-R1	MWD091/MWD092	Top Soil Cover	30			200			10			64			110			220			20000			23000		
TOCO51-S-R2	MWD091/MWD092	Top Soil Cover	28			190			11			64			110			220			21000			23000		
TOCO51-S-R3	MWD091/MWD092	Top Soil Cover	31			210			9.8			62			100			210			22000			23000		
TOCO54-D	MWD091/MWD092	Top Soil Cover	60			90			17			110			170			470			43000			20000		
TOCO54-S	MWD091/MWD092	Top Soil Cover	1.6			11			5			47			72			170			6800			23000		
TOCO55-D-avg	MWD091/MWD092	Top Soil Cover	31			160			13			130			140			570			38000			21000		
TOCO55-D	MWD091/MWD092	Top Soil Cover	31			160			12			120			140			550			39000			21000		
TOCO55-D-dup	MWD091/MWD092	Top Soil Cover	NA			NA			14			130			140			580			36000			21000		
TOCO55-S	MWD091/MWD092	Top Soil Cover	2.5			48			14			71			84			370			13000			22000		
TOCO56-D	MWD091/MWD092	Top Soil Cover	150			300			55			210			530			1200			100000			17000		
TOCO56-S	MWD091/MWD092	Top Soil Cover	1.6			25			38			110			310			840			68000			19000		
TOCO57-D	MWD091/MWD092	Top Soil Cover	7.4			20			59			180			420			1500			100000			14000		
TOCO57-S	MWD091/MWD092	Top Soil Cover	15			32			62			190			430			1700			97000			14000		
TOCO58-D	MWD091/MWD092	Top Soil Cover	120			340			54			140			430			540			110000			14000		
TOCO58-S	MWD091/MWD092	Top Soil Cover	39			97			56			190			430			1300			91000			18000		
TOCO59-D-avg	MWD091/MWD092	Top Soil Cover	97			290			28			170			230			790			55000			19000		
TOCO59-D	MWD091/MWD092	Top Soil Cover	93			290			28			170			230			790			55000			19000		
TOCO59-D-dup	MWD091/MWD092	Top Soil Cover	100			NA			NA			NA			NA			NA			NA			NA		
TOCO59-S-avg	MWD091/MWD092	Top Soil Cover	40			200			19			140			160			630			39000			21000		
TOCO59-S	MWD091/MWD092	Top Soil Cover	40			200			19			140			160			630			39000			21000		
TOCO59-S-dup	MWD091/MWD092	Top Soil Cover	NA			200			NA			NA			NA			NA			NA			NA		

Table 2: Enoch Valley Mine - Upland Soil Analytical Historical Data (mg/kg, dw)[a] continued																										
			Selenium			Extractable Selenium			Cadmium			Nickel			Vanadium			Zinc			Calcium			Iron		
			2000			2000			2000			2000			2000			2000			2000			2000		
ID	Waste Dump	Soil Type	Summer	RL	Flag	Summer	RL	Flag	Summer	RL	Flag	Summer	RL	Flag	Summer	RL	Flag	Summer	RL	Flag	Summer	RL	Flag	Summer	RL	Flag
TOCO60-S-avg	MWD091/MWD092	Top Soil Cover	110			290			57			180			410			920			100000			14000		
TOCO60-S	MWD091/MWD092	Top Soil Cover	110			290			56			180			410			920			100000			15000		
TOCO60-S-dup	MWD091/MWD092	Top Soil Cover	NA			NA			58			180			400			920			100000			13000		
TOCO61	MWD091/MWD092	Top Soil Cover	220			290			50			180			470			890			110000			16000		
TOCO62-D-avg	MWD091/MWD092	Top Soil Cover	100			270			61			120			460			510			120000			16000		
TOCO62-D-R1	MWD091/MWD092	Top Soil Cover	93			280			60			120			450			500			120000			16000		
TOCO62-D-R2	MWD091/MWD092	Top Soil Cover	110			280			62			130			470			510			120000			16000		
TOCO62-D-R3	MWD091/MWD092	Top Soil Cover	100			250			61			120			450			510			120000			16000		
TOCO62-S-avg	MWD091/MWD092	Top Soil Cover	57			96			69			120			440			550			120000			16000		
TOCO62-S-R1	MWD091/MWD092	Top Soil Cover	60			110			68			120			420			560			120000			15000		
TOCO62-S-R2	MWD091/MWD092	Top Soil Cover	55			88			68			120			440			550			120000			16000		
TOCO62-S-R3	MWD091/MWD092	Top Soil Cover	56			90			70			120			450			550			120000			17000		
TOCO63-S	MWD091/MWD092	Top Soil Cover	96			290			55			110			340			470			100000			15000		
TOCO64-D	MWD091/MWD092	Top Soil Cover	120			710			35			240			460			1200			89000			21000		
TOCO64-S	MWD091/MWD092	Top Soil Cover	13			89			7.1			130			89			450			17000			24000		
TOCO01-D-avg	MWD091/MWD092	Top Soil Cover	56			46			38			320			340			1400			130000			18000		
TOCO01-D	MWD091/MWD092	Top Soil Cover	56			46			37			310			330			1400			130000			17000		
TOCO01-D-dup	MWD091/MWD092	Top Soil Cover	NA			NA			39			320			340			1400			130000			18000		
TOCO01-S	MWD091/MWD092	Top Soil Cover	60			68			30			350			280			1400			120000			18000		
TOCO02-D	MWD091/MWD092	Top Soil Cover	13			120			19			110			150			530			91000			38000		
TOCO02-S	MWD091/MWD092	Top Soil Cover	15			230			17			130			140			650			39000			20000		
TOCO03-D	MWD091/MWD092	Top Soil Cover	44			33			46			270			270			1300			150000			17000		
TOCO03-S-avg	MWD091/MWD092	Top Soil Cover	27			100			43			240			290			1200			130000			18000		
TOCO03-S	MWD091/MWD092	Top Soil Cover	26			100			43			240			290			1200			130000			18000		
TOCO03-S-dup	MWD091/MWD092	Top Soil Cover	28			NA			NA			NA			NA			NA			NA			NA		
TOCO04-D	MWD091/MWD092	Top Soil Cover	12			58			30			140			220			770			77000			19000		
TOCO04-S	MWD091/MWD092	Top Soil Cover	11			76			32			160			260			850			86000			19000		
TOCO07-S	MWD091/MWD092	Top Soil Cover	3.9			85			10			81			87			450			14000			24000		
TOCO11-D	MWD091/MWD092	Top Soil Cover	43			1000			60			300			560			1700			120000			18000		
TOCO11-S-avg	MWD091/MWD092	Top Soil Cover	10			25			56			160			510			1100			100000			17000		
TOCO11-S	MWD091/MWD092	Top Soil Cover	9.3			25			56			160			510			1100			100000			17000		
TOCO11-S-dup	MWD091/MWD092	Top Soil Cover	11			NA			NA			NA			NA			NA			NA			NA		
TOCO12-D	MWD091/MWD092	Top Soil Cover	5.2			91			20			78			160			450			30000			16000		
TOCO12-S	MWD091/MWD092	Top Soil Cover	42			790			48			290			380			1800			81000			17000		
TOCO13-D	MWD091/MWD092	Top Soil Cover	1.2			-6.3	10	U	11			37			75			190			23000			15000		
TOCO13-S	MWD091/MWD092	Top Soil Cover	6.4			250			20			76			130			400			29000			17000		
TOCO14-D	MWD091/MWD092	Top Soil Cover	20			290			22			170			150			800			41000			16000		
TOCO14-S-avg	MWD091/MWD092	Top Soil Cover	57			74			20			110			130			510			38000			17000		
TOCO14-S	MWD091/MWD092	Top Soil Cover	57			78			20			110			130			510			38000			17000		
TOCO14-S-dup	MWD091/MWD092	Top Soil Cover	NA			70			NA			NA			NA			NA			NA			NA		
TOCO15-D	MWD091/MWD092	Top Soil Cover	21			69			23			190			220			990			63000			21000		
TOCO15-S-avg	MWD091/MWD092	Top Soil Cover	21			60			21			160			200			700			44000			22000		
TOCO15-S	MWD091/MWD092	Top Soil Cover	21			60			22			160			210			750			45000			22000		
TOCO15-S-dup	MWD091/MWD092	Top Soil Cover	NA			NA			20			150			190			650			42000			21000		
TOCO16-D-avg	MWD091/MWD092	Top Soil Cover	53			300			27			150			240			510			33000			20000		
TOCO16-D	MWD091/MWD092	Top Soil Cover	51			300			27			150			240			510			33000			20000		
TOCO16-D-dup	MWD091/MWD092	Top Soil Cover	55			NA			NA			NA			NA			NA			NA			NA		
TOCO16-S	MWD091/MWD092	Top Soil Cover	4.8			17			37			87			230			680			70000			20000		

Table 2: Enoch Valley Mine - Upland Soil Analytical Historical Data (mg/kg, dw)[a] continued																									
			Selenium			Extractable Selenium			Cadmium			Nickel			Vanadium			Zinc			Calcium			Iron		
			2000			2000			2000			2000			2000			2000			2000			2000		
ID	Waste Dump	Soil Type	Summer	RL	Flag	Summer	RL	Flag	Summer	RL	Flag	Summer	RL	Flag	Summer	RL	Flag	Summer	RL	Flag	Summer	RL	Flag	Summer	RL	Flag
TOCO17-D-avg	MWD091/MWD092	Top Soil Cover	4.4			9.4	10	U	8.4			91			100			260			18000			30000		
TOCO17-D	MWD091/MWD092	Top Soil Cover	4.4			9.2	10	U	8.4			91			100			260			18000			30000		
TOCO17-D-dup	MWD091/MWD092	Top Soil Cover	NA			9.6	10	U	NA			NA			NA			NA			NA			NA		
TOCO17-S	MWD091/MWD092	Top Soil Cover	4.6			10			7.6			79			92			250			14000			26000		
TOCO18-D-avg	MWD091/MWD092	Top Soil Cover	150			1200			45			190			470			940			110000			17000		
TOCO18-D-R1	MWD091/MWD092	Top Soil Cover	160			1400			45			190			460			920			110000			16000		
TOCO18-D-R2	MWD091/MWD092	Top Soil Cover	150			1300			44			190			490			930			120000			17000		
TOCO18-D-R3	MWD091/MWD092	Top Soil Cover	130			900			46			190			460			980			100000			17000		
TOCO18-S-avg	MWD091/MWD092	Top Soil Cover	23			96			42			110			270			680			79000			18000		
TOCO18-S-R1	MWD091/MWD092	Top Soil Cover	21			100			42			110			270			700			76000			18000		
TOCO18-S-R2	MWD091/MWD092	Top Soil Cover	28			94			43			110			260			670			81000			18000		
TOCO18-S-R3	MWD091/MWD092	Top Soil Cover	21			95			40			100			270			660			79000			18000		
TOCO19-D-avg	MWD091/MWD092	Top Soil Cover	250			570			19			200			250			840			81000			19000		
TOCO19-D	MWD091/MWD092	Top Soil Cover	250			570			19			200			250			840			81000			19000		
TOCO19-D-dup	MWD091/MWD092	Top Soil Cover	250			NA			NA			NA			NA			NA			NA			NA		
TOCO19-S	MWD091/MWD092	Top Soil Cover	53			110			12			110			110			450			29000			22000		
TOCO20-D	MWD091/MWD092	Top Soil Cover	40			75			23			200			190			890			61000			21000		
TOCO20-S	MWD091/MWD092	Top Soil Cover	6.0			33			13			82			100			360			21000			22000		
TOCO21-D	MWD091/MWD092	Top Soil Cover	7.5			110			32			130			150			990			66000			7500		
TOCO21-S	MWD091/MWD092	Top Soil Cover	6.2			38			94			280			490			1800			120000			18000		
TOCO22-D	MWD091/MWD092	Top Soil Cover	19			47			40			160			260			880			75000			22000		
TOCO22-S	MWD091/MWD092	Top Soil Cover	12			13			22			100			160			460			40000			22000		
TOCO23-D	MWD091/MWD092	Top Soil Cover	8.0			27			60			160			430			1500			93000			18000		
TOCO23-S	MWD091/MWD092	Top Soil Cover	16			64			56			190			440			1300			89000			19000		
TOCO24-D-avg	MWD091/MWD092	Top Soil Cover	36			17			13			120			140			370			31000			26000		
TOCO24-D	MWD091/MWD092	Top Soil Cover	36			17			13			120			130			390			32000			26000		
TOCO24-D-dup	MWD091/MWD092	Top Soil Cover	NA			NA			12			110			140			350			29000			25000		
TOCO24-S	MWD091/MWD092	Top Soil Cover	27			30			22			110			180			360			52000			20000		
TOCO25-S	MWD091/MWD092	Top Soil Cover	87			290			51			210			400			890			120000			19000		
TOCO26-S-avg	MWD091/MWD092	Top Soil Cover	1.8			-10	10	U	3.8			58			57			190			6100			23000		
TOCO26-S	MWD091/MWD092	Top Soil Cover	1.8			-9.3	10	U	3.8			58			57			190			6100			23000		
TOCO26-S-dup	MWD091/MWD092	Top Soil Cover	1.7			-11	10	U	NA			NA			NA			NA			NA			NA		
TOCO27-D	MWD091/MWD092	Top Soil Cover	60			28			30			240			280			1000			120000			19000		
TOCO27-S	MWD091/MWD092	Top Soil Cover	43			13			34			200			260			880			99000			17000		
TOCO28-D	MWD091/MWD092	Top Soil Cover	16			20			9.0			100			100			360			12000			21000		
TOCO28-S	MWD091/MWD092	Top Soil Cover	2.3			-3.0	10	U	3.3			66			61			200			5700			23000		
TOCO30-D	MWD091/MWD092	Top Soil Cover	49			91			20			310			200			1400			63000			21000		
TOCO30-S	MWD091/MWD092	Top Soil Cover	20			55			11			230			130			850			34000			24000		
TOCO31-D-avg	MWD091/MWD092	Top Soil Cover	56			350			52			320			460			1800			120000			19000		
TOCO31-D	MWD091/MWD092	Top Soil Cover	56			350			50			320			460			1700			120000			19000		
TOCO31-D-dup	MWD091/MWD092	Top Soil Cover	NA			NA			54			320			450			1800			110000			NA		
TOCO31-S-avg	MWD091/MWD092	Top Soil Cover	17			130			38			230			300			1500			110000			16000		
TOCO31-S	MWD091/MWD092	Top Soil Cover	17			130			38			230			300			1500			110000			16000		
TOCO31-S-dup	MWD091/MWD092	Top Soil Cover	NA			130			NA			NA			NA			NA			NA			NA		
TOCO32-D-avg	MWD091/MWD092	Top Soil Cover	56			150			21			180			180			740			57000			22000		
TOCO32-D	MWD091/MWD092	Top Soil Cover	53			150			21			180			180			740			57000			22000		
TOCO32-D-dup	MWD091/MWD092	Top Soil Cover	58			NA			NA			NA			NA			NA			NA			NA		

Table 2: Enoch Valley Mine - Upland Soil Analytical Historical Data (mg/kg, dw)[a] continued																									
			Selenium			Extractable Selenium			Cadmium			Nickel			Vanadium			Zinc			Calcium			Iron		
			2000			2000			2000			2000			2000			2000			2000			2000		
ID	Waste Dump	Soil Type	Summer	RL	Flag	Summer	RL	Flag	Summer	RL	Flag	Summer	RL	Flag	Summer	RL	Flag	Summer	RL	Flag	Summer	RL	Flag	Summer	RL	Flag
TOCO32-S-avg	MWD091/MWD092	Top Soil Cover	38			83			24			160			200			680			52000			21000		
TOCO32-S	MWD091/MWD092	Top Soil Cover	38			84			24			160			200			680			52000			21000		
TOCO32-S-dup	MWD091/MWD092	Top Soil Cover	NA			81			NA			NA			NA			NA			NA			NA		
TOCO33-D	MWD091/MWD092	Top Soil Cover	45			61			41			250			230			1000			83000			21000		
TOCO33-S	MWD091/MWD092	Top Soil Cover	66			280			42			180			300			1100			71000			18000		
TOCO34-D-avg	MWD091/MWD092	Top Soil Cover	2.0			2.7	10	U	22			120			96			830			85000			13000		
TOCO34-D	MWD091/MWD092	Top Soil Cover	2.0			2.8	10	U	22			120			96			830			85000			13000		
TOCO34-D-dup	MWD091/MWD092	Top Soil Cover	NA			2.5	10	U	NA			NA			NA			NA			NA			NA		
TOCO34-S	MWD091/MWD092	Top Soil Cover	3.4			2.2	10	U	4.2			80			68			250			6600			22000		
TOCO36-D-avg	MWD091/MWD092	Top Soil Cover	32			43			41			180			290			670			140000			15000		
TOCO36-D	MWD091/MWD092	Top Soil Cover	32			43			41			180			290			670			140000			15000		
TOCO36-D-dup	MWD091/MWD092	Top Soil Cover	32			NA			NA			NA			NA			NA			NA			NA		
TOCO36-S-avg	MWD091/MWD092	Top Soil Cover	58			67			36			170			280			610			97000			18000		
TOCO36-S	MWD091/MWD092	Top Soil Cover	58			67			36			170			280			620			95000			18000		
TOCO36-S-dup	MWD091/MWD092	Top Soil Cover	NA			NA			35			160			280			590			98000			17000		
TOCO37-D	MWD091/MWD092	Top Soil Cover	21			10			18			370			210			1700			75000			19000		
TOCO37-S	MWD091/MWD092	Top Soil Cover	9.7			11			9.0			130			110			470			19000			22000		
TOCO39-D	MWD091/MWD092	Top Soil Cover	280			1500			43			180			340			470			150000			19000		
TOCO39-S	MWD091/MWD092	Top Soil Cover	64			470			25			97			190			330			68000			20000		
TOCO40-D	MWD091/MWD092	Top Soil Cover	3.7			31			5.6			64			67			210			24000			29000		
TOCO40-S	MWD091/MWD092	Top Soil Cover	7.8			32			4.8			71			69			240			19000			28000		
TOCO41-D-avg	MWD091/MWD092	Top Soil Cover	74			210			35			170			230			550			77000			20000		
TOCO41-D	MWD091/MWD092	Top Soil Cover	74			220			35			170			230			550			77000			20000		
TOCO41-D-dup	MWD091/MWD092	Top Soil Cover	NA			200			NA			NA			NA			NA			NA			NA		
TOCO41-S	MWD091/MWD092	Top Soil Cover	32			75			23			120			170			350			59000			22000		
TOCO44-D-avg	MWD091/MWD092	Top Soil Cover	6.5			13			3.0			74			57			210			6300			21000		
TOCO44-D	MWD091/MWD092	Top Soil Cover	6.5			13			3.0			74			57			210			6300			21000		
TOCO44-D-dup	MWD091/MWD092	Top Soil Cover	6.5			NA			NA			NA			NA			NA			NA			NA		
TOCO44-S	MWD091/MWD092	Top Soil Cover	2.8			-1.6	10	U	3.2			74			58			210			5100			22000		
TOST02	NA	Top Soil Stockpile	1.2			2.5	10	U	2.2			27			48			83			4400			21000		
TOST03	NA	Top Soil Stockpile	1.2			4.8	10	U	2.6			34			51			100			4700			25000		
TOST01	NA	Top Soil Stockpile	3.1			13			26			78			190			570			27000			20000		

Table 2: Enoch Valley Mine - Upland Soil Analytical Historical Data (mg/kg, dw)[a] continued														
			Magnesium			Manganese			Potassium			Sodium		
			2000			2000			2000			2000		
ID	Waste Dump	Soil Type	Summer	RL	Flag	Summer	RL	Flag	Summer	RL	Flag	Summer	RL	Flag
Bat Cave TOST	NA	Top Soil Stockpile	4700			650			6400			170		
BLSH02	NA	Black Shale	1700			66			4600			950		
BLSH03-avg	NA	Black Shale	4800			240			6700			690		
BLSH03	NA	Black Shale	4800			240			6700			690		
BLSH03-dup	NA	Black Shale	NA			NA			NA			NA		
BLSH01	NA	Black Shale	7000			240			3800			1100		
BRSH05-avg	MWD091	Brown Shale	3300			490			6500			680		
BRSH05-R1	MWD091	Brown Shale	3400			630			6600			710		
BRSH05-R2	MWD091	Brown Shale	3200			420			6400			660		
BRSH05-R3	MWD091	Brown Shale	3300			430			6500			660		
BRSH06-avg	MWD091	Brown Shale	2200			120			5900			1000		
BRSH06	MWD091	Brown Shale	2200			120			5900			1000		
BRSH06-dup	MWD091	Brown Shale	NA			NA			NA			NA		
BRSH07	MWD091	Brown Shale	2100			58			5400			1000		
BRSH08	MWD091	Brown Shale	5700			100			6300			620		
BRSH09	MWD091	Brown Shale	1800			97			4700			900		
BRSH01	MWD091	Brown Shale	5700			630			6000			230		
BRSH02	MWD091	Brown Shale	11000			390			5900			980		
BRSH03-avg	MWD091	Brown Shale	6700			430			5900			440		
BRSH03	MWD091	Brown Shale	6700			430			5900			440		
BRSH03-dup	MWD091	Brown Shale	NA			NA			NA			NA		
BRSH04-avg	MWD091	Brown Shale	7100			240			4600			1100		
BRSH04-R1	MWD091	Brown Shale	7400			240			4700			1100		
BRSH04-R2	MWD091	Brown Shale	6900			220			4600			1000		
BRSH04-R3	MWD091	Brown Shale	6900			250			4600			1100		
CHSH01	MWD092	Cherty Shale	5300			300			5400			900		
CHSH02	MWD092	Cherty Shale	3900			230			4200			1000		
CHSH03	MWD092	Cherty Shale	6000			430			7200			810		
CHSH04	MWD092	Cherty Shale	5400			200			4700			1200		
CHSH05	MWD092	Cherty Shale	3400			120			4500			990		
CHSH06	MWD092	Cherty Shale	3000			290			4300			1100		
Middle West TOST-avg	NA	Top Soil Stockpile	5200			1500			6700			180		
Middle West TOST	NA	Top Soil Stockpile	5300			1400			6500			180		
Middle West TOST-dup	NA	Top Soil Stockpile	5100			1600			6900			180		
SRBG01	NA	Background	4100			670			5100			190		
SRBG02	NA	Background	3500			350			6400			1000		
SRBG03	NA	Background	8800			1100			6200			1400		
SRBG04	NA	Background	4300			690			5600			180		
SRBG05-avg	NA	Background	4600			520			7500			230		
SRBG05	NA	Background	4600			520			7500			230		
SRBG05-dup	NA	Background	NA			NA			NA			NA		
SRBG06-avg	NA	Background	3600			260			7300			740		
SRBG06-R1	NA	Background	3500			250			7100			730		
SRBG06-R2	NA	Background	3700			270			7300			720		
SRBG06-R3	NA	Background	3500			260			7500			760		
TCOC26-D	MWD091/MWD092	Top Soil Cover	3700			730			5700			270		
TOCO35-D	MWD091/MWD092	Top Soil Cover	1800			97			4300			800		

Table 2: Enoch Valley Mine - Upland Soil Analytical Historical Data (mg/kg, dw)[a] continued														
			Magnesium			Manganese			Potassium			Sodium		
			2000			2000			2000			2000		
ID	Waste Dump	Soil Type	Summer	RL	Flag	Summer	RL	Flag	Summer	RL	Flag	Summer	RL	Flag
TOCO35-S	MWD091/MWD092	Top Soil Cover	4200			720			6100			300		
TOCO38-D	MWD091/MWD092	Top Soil Cover	5800			280			4600			940		
TOCO38-S	MWD091/MWD092	Top Soil Cover	5300			510			6700			360		
TOCO42-D	MWD091/MWD092	Top Soil Cover	3700			320			5500			770		
TOCO42-S	MWD091/MWD092	Top Soil Cover	5000			660			6700			270		
TOCO43-D	MWD091/MWD092	Top Soil Cover	5400			630			6100			270		
TOCO43-S	MWD091/MWD092	Top Soil Cover	4600			720			6100			220		
TOCO44-D	MWD091/MWD092	Top Soil Cover	3400			330			4600			630		
TOCO44-S-avg	MWD091/MWD092	Top Soil Cover	4900			520			6000			270		
TOCO44-S	MWD091/MWD092	Top Soil Cover	5100			530			6200			280		
TOCO44-S-dup	MWD091/MWD092	Top Soil Cover	4600			510			5800			250		
TOCO46-D	MWD091/MWD092	Top Soil Cover	5900			1100			6600			410		
TOCO46-S	MWD091/MWD092	Top Soil Cover	6400			1300			6500			200		
TOCO48-D-avg	MWD091/MWD092	Top Soil Cover	3300			310			6200			550		
TOCO48-D	MWD091/MWD092	Top Soil Cover	3300			310			6200			550		
TOCO48-D-dup	MWD091/MWD092	Top Soil Cover	NA			NA			NA			NA		
TOCO48-S	MWD091/MWD092	Top Soil Cover	4100			360			6400			210		
TOCO49-S	MWD091/MWD092	Top Soil Cover	6800			3500			10000			190		
TOCO50-D	MWD091/MWD092	Top Soil Cover	22000			760			5900			320		
TOCO50-S	MWD091/MWD092	Top Soil Cover	10000			890			6200			190		
TOCO51-D-avg	MWD091/MWD092	Top Soil Cover	6600			1700			6600			680		
TOCO51-D-R1	MWD091/MWD092	Top Soil Cover	6400			1600			6600			680		
TOCO51-D-R2	MWD091/MWD092	Top Soil Cover	6700			1400			6600			670		
TOCO51-D-R3	MWD091/MWD092	Top Soil Cover	6600			2000			6600			690		
TOCO51-S-avg	MWD091/MWD092	Top Soil Cover	7500			2000			7000			260		
TOCO51-S-R1	MWD091/MWD092	Top Soil Cover	7500			2000			6900			270		
TOCO51-S-R2	MWD091/MWD092	Top Soil Cover	7500			1900			7100			260		
TOCO51-S-R3	MWD091/MWD092	Top Soil Cover	7500			2000			6900			260		
TOCO54-D	MWD091/MWD092	Top Soil Cover	3700			820			4700			450		
TOCO54-S	MWD091/MWD092	Top Soil Cover	5700			1300			5100			160		
TOCO55-D-avg	MWD091/MWD092	Top Soil Cover	4900			1800			6100			450		
TOCO55-D	MWD091/MWD092	Top Soil Cover	5000			1700			6100			450		
TOCO55-D-dup	MWD091/MWD092	Top Soil Cover	4800			1900			6100			440		
TOCO55-S	MWD091/MWD092	Top Soil Cover	6300			1200			5500			210		
TOCO56-D	MWD091/MWD092	Top Soil Cover	6400			240			5100			970		
TOCO56-S	MWD091/MWD092	Top Soil Cover	7000			590			6100			630		
TOCO57-D	MWD091/MWD092	Top Soil Cover	12000			330			5500			960		
TOCO57-S	MWD091/MWD092	Top Soil Cover	11000			350			5700			910		
TOCO58-D	MWD091/MWD092	Top Soil Cover	2100			45			5100			840		
TOCO58-S	MWD091/MWD092	Top Soil Cover	7500			490			6000			900		
TOCO59-D-avg	MWD091/MWD092	Top Soil Cover	11000			890			7200			490		
TOCO59-D	MWD091/MWD092	Top Soil Cover	11000			890			7200			490		
TOCO59-D-dup	MWD091/MWD092	Top Soil Cover	NA			NA			NA			NA		
TOCO59-S-avg	MWD091/MWD092	Top Soil Cover	11000			990			6700			350		
TOCO59-S	MWD091/MWD092	Top Soil Cover	11000			990			6700			350		
TOCO59-S-dup	MWD091/MWD092	Top Soil Cover	NA			NA			NA			NA		

Table 2: Enoch Valley Mine - Upland Soil Analytical Historical Data (mg/kg, dw)[a] continued														
			Magnesium			Manganese			Potassium			Sodium		
			2000			2000			2000			2000		
ID	Waste Dump	Soil Type	Summer	RL	Flag	Summer	RL	Flag	Summer	RL	Flag	Summer	RL	Flag
TOCO60-S-avg	MWD091/MWD092	Top Soil Cover	3300			110			5700			880		
TOCO60-S	MWD091/MWD092	Top Soil Cover	3500			110			5700			860		
TOCO60-S-dup	MWD091/MWD092	Top Soil Cover	3100			110			5600			900		
TOCO61	MWD091/MWD092	Top Soil Cover	3400			140			5100			930		
TOCO62-D-avg	MWD091/MWD092	Top Soil Cover	2600			90			5400			860		
TOCO62-D-R1	MWD091/MWD092	Top Soil Cover	2600			87			5400			830		
TOCO62-D-R2	MWD091/MWD092	Top Soil Cover	2700			95			5600			850		
TOCO62-D-R3	MWD091/MWD092	Top Soil Cover	2600			89			5300			890		
TOCO62-S-avg	MWD091/MWD092	Top Soil Cover	2600			100			5900			820		
TOCO62-S-R1	MWD091/MWD092	Top Soil Cover	2600			91			6000			810		
TOCO62-S-R2	MWD091/MWD092	Top Soil Cover	2600			110			6000			820		
TOCO62-S-R3	MWD091/MWD092	Top Soil Cover	2500			110			5700			830		
TOCO63-S	MWD091/MWD092	Top Soil Cover	2700			130			6000			830		
TOCO64-D	MWD091/MWD092	Top Soil Cover	2700			130			5800			870		
TOCO64-S	MWD091/MWD092	Top Soil Cover	4100			590			7100			290		
TOCO01-D-avg	MWD091/MWD092	Top Soil Cover	6500			270			4800			1100		
TOCO01-D	MWD091/MWD092	Top Soil Cover	6600			270			4600			1100		
TOCO01-D-dup	MWD091/MWD092	Top Soil Cover	6300			270			4900			1100		
TOCO01-S	MWD091/MWD092	Top Soil Cover	4900			300			4600			1100		
TOCO02-D	MWD091/MWD092	Top Soil Cover	7200			450			5700			380		
TOCO02-S	MWD091/MWD092	Top Soil Cover	7800			440			5700			350		
TOCO03-D	MWD091/MWD092	Top Soil Cover	5300			270			4200			1200		
TOCO03-S-avg	MWD091/MWD092	Top Soil Cover	7100			300			4600			1100		
TOCO03-S	MWD091/MWD092	Top Soil Cover	7100			300			4600			1100		
TOCO03-S-dup	MWD091/MWD092	Top Soil Cover	NA			NA			NA			NA		
TOCO04-D	MWD091/MWD092	Top Soil Cover	6700			300			6700			510		
TOCO04-S	MWD091/MWD092	Top Soil Cover	7000			310			6900			570		
TOCO07-S	MWD091/MWD092	Top Soil Cover	7100			1700			8500			280		
TOCO11-D	MWD091/MWD092	Top Soil Cover	7600			340			5400			1300		
TOCO11-S-avg	MWD091/MWD092	Top Soil Cover	6600			380			5700			1000		
TOCO11-S	MWD091/MWD092	Top Soil Cover	6600			380			5700			1000		
TOCO11-S-dup	MWD091/MWD092	Top Soil Cover	NA			NA			NA			NA		
TOCO12-D	MWD091/MWD092	Top Soil Cover	5200			530			4900			370		
TOCO12-S	MWD091/MWD092	Top Soil Cover	5900			370			5000			1000		
TOCO13-D	MWD091/MWD092	Top Soil Cover	5200			510			4000			220		
TOCO13-S	MWD091/MWD092	Top Soil Cover	5100			730			5000			350		
TOCO14-D	MWD091/MWD092	Top Soil Cover	4000			510			4600			410		
TOCO14-S-avg	MWD091/MWD092	Top Soil Cover	4700			750			4500			340		
TOCO14-S	MWD091/MWD092	Top Soil Cover	4700			750			4500			340		
TOCO14-S-dup	MWD091/MWD092	Top Soil Cover	NA			NA			NA			NA		
TOCO15-D	MWD091/MWD092	Top Soil Cover	16000			850			5900			490		
TOCO15-S-avg	MWD091/MWD092	Top Soil Cover	10000			690			6100			410		
TOCO15-S	MWD091/MWD092	Top Soil Cover	11000			700			6200			430		
TOCO15-S-dup	MWD091/MWD092	Top Soil Cover	9700			670			6000			390		
TOCO16-D-avg	MWD091/MWD092	Top Soil Cover	3900			83			6400			380		
TOCO16-D	MWD091/MWD092	Top Soil Cover	3900			83			6400			380		
TOCO16-D-dup	MWD091/MWD092	Top Soil Cover	NA			NA			NA			NA		
TOCO16-S	MWD091/MWD092	Top Soil Cover	4100			380			6200			640		

Table 2: Enoch Valley Mine - Upland Soil Analytical Historical Data (mg/kg, dw)[a] continued														
			Magnesium			Manganese			Potassium			Sodium		
			2000			2000			2000			2000		
ID	Waste Dump	Soil Type	Summer	RL	Flag	Summer	RL	Flag	Summer	RL	Flag	Summer	RL	Flag
TOCO17-D-avg	MWD091/MWD092	Top Soil Cover	7100			3800			8300			300		
TOCO17-D	MWD091/MWD092	Top Soil Cover	7100			3800			8300			300		
TOCO17-D-dup	MWD091/MWD092	Top Soil Cover	NA			NA			NA			NA		
TOCO17-S	MWD091/MWD092	Top Soil Cover	6200			1800			6800			230		
TOCO18-D-avg	MWD091/MWD092	Top Soil Cover	1700			55			4300			990		
TOCO18-D-R1	MWD091/MWD092	Top Soil Cover	1600			56			4100			980		
TOCO18-D-R2	MWD091/MWD092	Top Soil Cover	1700			56			4400			980		
TOCO18-D-R3	MWD091/MWD092	Top Soil Cover	1700			54			4400			1000		
TOCO18-S-avg	MWD091/MWD092	Top Soil Cover	3600			290			5700			700		
TOCO18-S-R1	MWD091/MWD092	Top Soil Cover	3400			290			5700			710		
TOCO18-S-R2	MWD091/MWD092	Top Soil Cover	3800			290			5800			710		
TOCO18-S-R3	MWD091/MWD092	Top Soil Cover	3600			290			5600			690		
TOCO19-D-avg	MWD091/MWD092	Top Soil Cover	9900			410			4900			620		
TOCO19-D	MWD091/MWD092	Top Soil Cover	9900			410			4900			620		
TOCO19-D-dup	MWD091/MWD092	Top Soil Cover	NA			NA			NA			NA		
TOCO19-S	MWD091/MWD092	Top Soil Cover	5900			850			6300			320		
TOCO20-D	MWD091/MWD092	Top Soil Cover	6800			610			5500			540		
TOCO20-S	MWD091/MWD092	Top Soil Cover	6000			980			6500			260		
TOCO21-D	MWD091/MWD092	Top Soil Cover	21000			240			2900			370		
TOCO21-S	MWD091/MWD092	Top Soil Cover	31000			800			6000			710		
TOCO22-D	MWD091/MWD092	Top Soil Cover	5100			400			6400			730		
TOCO22-S	MWD091/MWD092	Top Soil Cover	4900			480			6900			470		
TOCO23-D	MWD091/MWD092	Top Soil Cover	13000			390			6400			800		
TOCO23-S	MWD091/MWD092	Top Soil Cover	7500			380			6300			860		
TOCO24-D-avg	MWD091/MWD092	Top Soil Cover	6100			1800			7100			340		
TOCO24-D	MWD091/MWD092	Top Soil Cover	6100			1800			7200			350		
TOCO24-D-dup	MWD091/MWD092	Top Soil Cover	6100			1800			6900			330		
TOCO24-S	MWD091/MWD092	Top Soil Cover	4200			1200			6100			500		
TOCO25-S	MWD091/MWD092	Top Soil Cover	2400			160			5200			980		
TOCO26-S-avg	MWD091/MWD092	Top Soil Cover	5800			1400			7000			170		
TOCO26-S	MWD091/MWD092	Top Soil Cover	5800			1400			7000			170		
TOCO26-S-dup	MWD091/MWD092	Top Soil Cover	NA			NA			NA			NA		
TOCO27-D	MWD091/MWD092	Top Soil Cover	2100			64			4500			1000		
TOCO27-S	MWD091/MWD092	Top Soil Cover	2000			47			4700			900		
TOCO28-D	MWD091/MWD092	Top Soil Cover	4000			630			5200			180		
TOCO28-S	MWD091/MWD092	Top Soil Cover	5000			1100			5900			160		
TOCO30-D	MWD091/MWD092	Top Soil Cover	3500			400			4700			560		
TOCO30-S	MWD091/MWD092	Top Soil Cover	4800			630			5500			350		
TOCO31-D-avg	MWD091/MWD092	Top Soil Cover	5100			280			5500			960		
TOCO31-D	MWD091/MWD092	Top Soil Cover	4800			270			5400			930		
TOCO31-D-dup	MWD091/MWD092	Top Soil Cover	NA			280			5600			980		
TOCO31-S-avg	MWD091/MWD092	Top Soil Cover	32000			380			5300			590		
TOCO31-S	MWD091/MWD092	Top Soil Cover	32000			380			5300			590		
TOCO31-S-dup	MWD091/MWD092	Top Soil Cover	NA			NA			NA			NA		
TOCO32-D-avg	MWD091/MWD092	Top Soil Cover	4400			480			6400			570		
TOCO32-D	MWD091/MWD092	Top Soil Cover	4400			480			6400			570		
TOCO32-D-dup	MWD091/MWD092	Top Soil Cover	NA			NA			NA			NA		

Table 2: Enoch Valley Mine - Upland Soil Analytical Historical Data (mg/kg, dw)[a] continued														
			Magnesium			Manganese			Potassium			Sodium		
			2000			2000			2000			2000		
ID	Waste Dump	Soil Type	Summer	RL	Flag	Summer	RL	Flag	Summer	RL	Flag	Summer	RL	Flag
TOCO32-S-avg	MWD091/MWD092	Top Soil Cover	5200			490			6400			510		
TOCO32-S	MWD091/MWD092	Top Soil Cover	5200			490			6400			510		
TOCO32-S-dup	MWD091/MWD092	Top Soil Cover	NA			NA			NA			NA		
TOCO33-D	MWD091/MWD092	Top Soil Cover	2900			320			5600			730		
TOCO33-S	MWD091/MWD092	Top Soil Cover	9400			400			5700			580		
TOCO34-D-avg	MWD091/MWD092	Top Soil Cover	42000			430			4500			310		
TOCO34-D	MWD091/MWD092	Top Soil Cover	42000			430			4500			310		
TOCO34-D-dup	MWD091/MWD092	Top Soil Cover	NA			NA			NA			NA		
TOCO34-S	MWD091/MWD092	Top Soil Cover	5300			710			6500			180		
TOCO36-D-avg	MWD091/MWD092	Top Soil Cover	1700			47			4500			1300		
TOCO36-D	MWD091/MWD092	Top Soil Cover	1700			47			4500			1300		
TOCO36-D-dup	MWD091/MWD092	Top Soil Cover	NA			NA			NA			NA		
TOCO36-S-avg	MWD091/MWD092	Top Soil Cover	2300			240			4800			890		
TOCO36-S	MWD091/MWD092	Top Soil Cover	2300			160			4600			910		
TOCO36-S-dup	MWD091/MWD092	Top Soil Cover	2300			320			4900			860		
TOCO37-D	MWD091/MWD092	Top Soil Cover	2900			240			4500			720		
TOCO37-S	MWD091/MWD092	Top Soil Cover	5000			670			6000			260		
TOCO39-D	MWD091/MWD092	Top Soil Cover	3400			180			4800			1400		
TOCO39-S	MWD091/MWD092	Top Soil Cover	4300			780			5400			570		
TOCO40-D	MWD091/MWD092	Top Soil Cover	8500			6100			9900			260		
TOCO40-S	MWD091/MWD092	Top Soil Cover	7300			3100			8300			240		
TOCO41-D-avg	MWD091/MWD092	Top Soil Cover	4600			940			5500			700		
TOCO41-D	MWD091/MWD092	Top Soil Cover	4600			940			5500			700		
TOCO41-D-dup	MWD091/MWD092	Top Soil Cover	NA			NA			NA			NA		
TOCO41-S	MWD091/MWD092	Top Soil Cover	4100			1100			5800			530		
TOCO44-D-avg	MWD091/MWD092	Top Soil Cover	4800			590			5500			170		
TOCO44-D	MWD091/MWD092	Top Soil Cover	4800			590			5500			170		
TOCO44-D-dup	MWD091/MWD092	Top Soil Cover	NA			NA			NA			NA		
TOCO44-S	MWD091/MWD092	Top Soil Cover	4700			620			5800			170		
TOST02	NA	Top Soil Stockpile	5200			1700			6400			140		
TOST03	NA	Top Soil Stockpile	6200			2800			7700			140		
TOST01	NA	Top Soil Stockpile	5600			690			6300			320		

Notes:

All data were utilized in the MWH, 2001, *Enoch Valley Mine Waste Rock Dump Characterization, Caribou County, Idaho Report*

a - Soils were sampled from 0-2 inches except those *Top Soil Cover* type samples marked "D," which indicate that a sample of the soil directly beneath the top soil cover was taken. If the top soil cover exceeded 18 inches, no "D" sample was taken.

Laboratory duplicates (D, D1) and field replicates (R1, R2, R3) are shown as unaveraged as well as averaged where appropriate.

Coordinates are in Geographic format (deg min decimal seconds) and use datum NAD27, except for 2001 data which uses WGS84.

Data qualifier definitions are:

(U) - The material was analyzed for, but was not detected above the level of the associated value. The associated value is the sample reporting limit.

(J) - The result is an estimated quantity.

(R) - The data are unusable.

(UJ) - The material was analyzed for, but was not detected above the level of the associated value. The result is an estimate and may be inaccurate or imprecise.

RL - Reporting Limit.

NA - Not Applicable.

NS - Not Sampled.

(D) Deep

(S) Surface - sample taken from 0-2 inches.

(dup) Lab Duplicate

Table 3: Upland Vegetation Analytical Historical Data (mg/kg, dw)																															
					Selenium																										
		Location			1998[d]			2001[i]			2004[p]			2004[p]			2004 (seasonal)[p]			2004 (mass wasting)[p]			2004[p]			2004[p]			2004[p]		
Mine	Name	Latitude	Longitude	ID	July	RL	Flag	Aug.-Sept.	RL	Flag	May	RL	Flag	June	RL	Flag	July	RL	Flag	July	RL	Flag	Aug.	RL	Flag	Sept.	RL	Flag	Oct.	RL	Flag
Ballard	Ballard Mine Pit #1 Overburden Dump #1			MWD080-avg	46			NS			NS			NS			NS			NS			NS			NS			NS		
		42 50 16.75	111 29 35.58	MWD080-P1	38			NA			NA			NA			NA			NA			NA			NA			NA		
		42 50 10.84	111 29 38.48	MWD080-P2-R1	52			NA			NA			NA			NA			NA			NA			NA			NA		
		42 50 10.84	111 29 38.48	MWD080-P2-R2	32			NA			NA			NA			NA			NA			NA			NA			NA		
		42 50 10.84	111 29 38.48	MWD080-P2-R2-D	NA			NA			NA			NA			NA			NA			NA			NA			NA		
		42 50 10.84	111 29 38.48	MWD080-P2-R3	34			NA			NA			NA			NA			NA			NA			NA			NA		
		42 50 08.31	111 29 37.98	MWD080-P3	64			NA			NA			NA			NA			NA			NA			NA			NA		
		42 50 04.94	111 29 36.28	MWD080-P4	41			NA			NA			NA			NA			NA			NA			NA			NA		
		42 50 03.23	111 29 35.25	MWD080-P5	49			NA			NA			NA			NA			NA			NA			NA			NA		
	Ballard Mine Pit #1 Overburden Dump #2			MWD081-avg	NS			25			0.046	0.50	U	-0.048	0.50	UJ	-0.25	0.50	U	NS			0.011	0.50	UJ	-0.42	0.50	U	-0.080	0.50	UJ
		42 49.30.40	111 28.59.60	MWD081	NS			NA			NA			-0.048	0.50	UJ	-0.25	0.50	U	NS			0.011	0.50	UJ	-0.42	0.50	U	-0.080	0.50	UJ
		42 49.30.40	111 28.59.60	MWD081-R1	NA			NA			-0.011	0.50	U	NA			NA			NA			NA			NA			NA		
		42 49.30.40	111 28.59.60	MWD081-R2	NA			NA			0.060	0.50	U	NA			NA			NA			NA			NA			NA		
		42 49.30.40	111 28.59.60	MWD081-R3	NA			NA			0.090	0.50	U	NA			NA			NA			NA			NA			NA		
		42 49.34.65	111 29.25.72	MWD081-P1	NA			39			NA			NA			NA			NA			NA			NA			NA		
		42 49.31.61	111 29.13.68	MWD081-P2-R1	NA			8.9			NA			NA			NA			NA			NA			NA			NA		
		42 49.31.61	111 29.13.68	MWD081-P2-R2	NA			9.0			NA			NA			NA			NA			NA			NA			NA		
		42 49.31.61	111 29.13.68	MWD081-P2-R3	NA			9.4			NA			NA			NA			NA			NA			NA			NA		
		42 49.21.77	111 29.20.50	MWD081-P3	NA			26			NA			NA			NA			NA			NA			NA			NA		
	Ballard Mine Pit #3 Overburden Dump			MWD082-avg	NS			NS			NS			NS			NS			NA			NS			NS			NS		
		42 49 34	111 28 18	MWD082-01	NA			NA			NA			NA			NA			53			NA			NA			NA		
		42 49 34	111 28 18	MWD082-02	NA			NA			NA			NA			NA			67			NA			NA			NA		
		42 49 34	111 28 18	MWD082-03	NA			NA			NA			NA			NA			54			NA			NA			NA		
		42 49 34	111 28 18	MWD082-04	NA			NA			NA			NA			NA			46			NA			NA			NA		
		42 49 34	111 28 18	MWD082-05	NA			NA			NA			NA			NA			50			NA			NA			NA		
		42 49 34	111 28 18	MWD082-06	NA			NA			NA			NA			NA			25			NA			NA			NA		
		42 49 34	111 28 18	MWD082-07	NA			NA			NA			NA			NA			17			NA			NA			NA		
		42 49 34	111 28 18	MWD082-08	NA			NA			NA			NA			NA			8.7			NA			NA			NA		
		42 49 34	111 28 18	MWD082-09	NA			NA			NA			NA			NA			17			NA			NA			NA		
		42 49 34	111 28 18	MWD082-10	NA			NA			NA			NA			NA			8.0			NA			NA			NA		
		42 49 34	111 28 18	MWD082-11	NA			NA			NA			NA			NA			7.7			NA			NA			NA		
		42 49 34	111 28 18	MWD082-12	NA			NA			NA			NA			NA			2.7			NA			NA			NA		
		42 49 34	111 28 18	MWD082-13	NA			NA			NA			NA			NA			3.8			NA			NA			NA		
		42 49 34	111 28 18	MWD082-14-avg	NA			NA			NA			NA			NA			58			NA			NA			NA		
		42 49 34	111 28 18	MWD082-14-R1	NA			NA			NA			NA			NA			59			NA			NA			NA		
		42 49 34	111 28 18	MWD082-14-R2	NA			NA			NA			NA			NA			58			NA			NA			NA		
		42 49 34	111 28 18	MWD082-14-R3	NA			NA			NA			NA			NA			58			NA			NA			NA		
		42 49 34	111 28 18	MWD082-15	NA			NA			NA			NA			NA			68			NA			NA			NA		
		42 49 34	111 28 18	MWD082-16	NA			NA			NA			NA			NA			46			NA			NA			NA		
		42 49 34	111 28 18	MWD082-17	NA			NA			NA			NA			NA			57			NA			NA			NA		
		42 49 34	111 28 18	MWD082-18	NA			NA			NA			NA			NA			49			NA			NA			NA		
		42 49 34	111 28 18	MWD082-19	NA			NA			NA			NA			NA			35			NA			NA			NA		
		42 49 34	111 28 18	MWD082-20	NA			NA			NA			NA			NA			17			NA			NA			NA		
		42 49 34	111 28 18	MWD082-21	NA			NA			NA			NA			NA			8.3			NA			NA			NA		
		42 49 34	111 28 18	MWD082-22	NA			NA			NA			NA			NA			8.4			NA			NA			NA		
		42 49 34	111 28 18	MWD082-23	NA			NA			NA			NA			NA			5.9			NA			NA			NA		
		42 49 34	111 28 18	MWD082-24	NA			NA			NA			NA			NA			3.2			NA			NA			NA		
		42 49 34	111 28 18	MWD082-25	NA			NA			NA			NA			NA			1.7			NA			NA			NA		
		42 49 34	111 28 18	MWD082-26	NA			NA			NA			NA			NA			2.6			NA			NA			NA		

Table 3: Upland Vegetation Analytical Historical Data (mg/kg, dw) continued																														
					Selenium																									
		Location			1998[d]			2001[1]			2004[p]			2004[p]			2004 (seasonal)[p]			2004 (mass wasting)[p]			2004[p]			2004[p]			2004[p]		
Mine	Name	Latitude	Longitude	ID	July	RL	Flag	Aug.-Sept.	RL	Flag	May	RL	Flag	June	RL	Flag	July	RL	Flag	July	RL	Flag	Aug.	RL	Flag	Sept.	RL	Flag	Oct.	RL	Flag
Henry	Henry Mine North Pit Overburden Dump			MWD085-avg	NS			NS			NS			NS			NS			NA			NS			NS			NS		
		42 54 36	111 30 34	MWD085-01	NA			NA			NA			NA			NA			-0.042	0.50	U	NA			NA			NA		
		42 54 36	111 30 34	MWD085-02	NA			NA			NA			NA			NA			1.7			NA			NA			NA		
		42 54 36	111 30 34	MWD085-03	NA			NA			NA			NA			NA			-0.25	0.50	U	NA			NA			NA		
		42 54 36	111 30 34	MWD085-04	NA			NA			NA			NA			NA			-0.49	0.50	U	NA			NA			NA		
		42 54 36	111 30 34	MWD085-05	NA			NA			NA			NA			NA			-0.48	0.50	U	NA			NA			NA		
		42 54 36	111 30 34	MWD085-06	NA			NA			NA			NA			NA			-0.44	0.50	U	NA			NA			NA		
		42 54 36	111 30 34	MWD085-07	NA			NA			NA			NA			NA			-0.43	0.50	U	NA			NA			NA		
		42 54 36	111 30 34	MWD085-08	NA			NA			NA			NA			NA			-0.026	0.50	U	NA			NA			NA		
		42 54 36	111 30 34	MWD085-09	NA			NA			NA			NA			NA			-0.042	0.50	U	NA			NA			NA		
		42 54 36	111 30 34	MWD085-10	NA			NA			NA			NA			NA			-0.031	0.50	U	NA			NA			NA		
		42 54 36	111 30 34	MWD085-11	NA			NA			NA			NA			NA			-0.036	0.50	U	NA			NA			NA		
		42 54 36	111 30 34	MWD085-12	NA			NA			NA			NA			NA			-0.063	0.50	U	NA			NA			NA		
		42 54 36	111 30 34	MWD085-13	NA			NA			NA			NA			NA			-0.15	0.50	U	NA			NA			NA		
		42 54 36	111 30 34	MWD085-14	NA			NA			NA			NA			NA			-0.26	0.50	U	NA			NA			NA		
		42 54 36	111 30 34	MWD085-15	NA			NA			NA			NA			NA			0.70			NA			NA			NA		
		42 54 36	111 30 34	MWD085-16	NA			NA			NA			NA			NA			1.9			NA			NA			NA		
		42 54 36	111 30 34	MWD085-17	NA			NA			NA			NA			NA			-0.33	0.50	U	NA			NA			NA		
		42 54 36	111 30 34	MWD085-18	NA			NA			NA			NA			NA			-0.49	0.50	U	NA			NA			NA		
		42 54 36	111 30 34	MWD085-19	NA			NA			NA			NA			NA			-0.42	0.50	U	NA			NA			NA		
		42 54 36	111 30 34	MWD085-20	NA			NA			NA			NA			NA			-0.40	0.50	U	NA			NA			NA		
		42 54 36	111 30 34	MWD085-21	NA			NA			NA			NA			NA			-0.43	0.50	U	NA			NA			NA		
		42 54 36	111 30 34	MWD085-22	NA			NA			NA			NA			NA			-0.50	0.50	U	NA			NA			NA		
		42 54 36	111 30 34	MWD085-23	NA			NA			NA			NA			NA			-0.46	0.50	U	NA			NA			NA		
		42 54 36	111 30 34	MWD085-24	NA			NA			NA			NA			NA			-0.36	0.50	U	NA			NA			NA		
		42 54 36	111 30 34	MWD085-25	NA			NA			NA			NA			NA			-0.34	0.50	U	NA			NA			NA		
		42 54 36	111 30 34	MWD085-26-avg	NA			NA			NA			NA			NA			0.0034	0.50	U	NA			NA			NA		
		42 54 36	111 30 34	MWD085-26-R1	NA			NA			NA			NA			NA			0.052	0.50	U	NA			NA			NA		
		42 54 36	111 30 34	MWD085-26-R2	NA			NA			NA			NA			NA			0.0052	0.50	U	NA			NA			NA		
		42 54 36	111 30 34	MWD085-26-R3	NA			NA			NA			NA			NA			-0.047	0.50	U	NA			NA			NA		
	Henry Mine Center Pit #1 Overburden Dump #2[a]			MWD089-avg	4.2			NS			NS			NS			NS			NS			NS			NS			NS		
		42 52 57.87	111 28 49.96	MWD089-P1	0.35			NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 54.28	111 28 48.78	MWD089-P2	0.67			NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 54.43	111 28 44.47	MWD089-P3	8.1			NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 54.43	111 28 44.47	MWD089-P3-D	8.2			NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 52.86	111 28 46.39	MWD089-P4	11			NA			NA			NA			NA			NA			NA			NA			NA		
		42 52 49.97	111 28 47.52	MWD089-P5	0.83			NA			NA			NA			NA			NA			NA			NA			NA		

Table 3: Upland Vegetation Analytical Historical Data (mg/kg, dw) continued																														
					Selenium																									
		Location			1998[d]			2001[1]			2004[p]			2004[p]			2004 (seasonal)[p]			2004 (mass wasting)[p]			2004[p]			2004[p]			2004[p]		
Mine	Name	Latitude	Longitude	ID	July	RL	Flag	Aug.-Sept.	RL	Flag	May	RL	Flag	June	RL	Flag	July	RL	Flag	July	RL	Flag	Aug.	RL	Flag	Sept.	RL	Flag	Oct.	RL	Flag
				MWD086-avg	NS			5.5			3.5			6.6		J	7.5			NA			5.4		J	1.0			0.80		J
		42 52 19.90	111 27 54.70	MWD086	NS			NA			3.5			6.6		J	7.5			NA			NA		J	1.0			0.80		J
		42 52 19.90	111 27 54.70	MWD086-R1	NA			NA			NA			NA			NA			NA			5.5		J	NA			NA		
		42 52 19.90	111 27 54.70	MWD086-R2	NA			NA			NA			NA			NA			NA			5.4		J	NA			NA		
		42 52 19.90	111 27 54.70	MWD086-R3	NA			NA			NA			NA			NA			NA			5.4		J	NA			NA		
		42 52 22.95	111 27 44.51	MWD086-P1	NA			4.4			NA			NA			NA			NA			NA			NA			NA		
		42 52 42.87	111 28 11.14	MWD086-P2	NA			7.5			NA			NA			NA			NA			NA			NA			NA		
		42 53 11.79	111 28 56.49	MWD086-P3	NA			4.7			NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-01-avg	NA			NA			NA			NA			NA			0.56	0.40<x<0.57	U	NA			NA			NA		
		42 52 47	111 27 59	MWD086-01-R1	NA			NA			NA			NA			NA			0.60			NA			NA			NA		
		42 52 47	111 27 59	MWD086-01-R2	NA			NA			NA			NA			NA			0.48	0.50	U	NA			NA			NA		
		42 52 47	111 27 59	MWD086-01-R3	NA			NA			NA			NA			NA			0.60			NA			NA			NA		
		42 52 47	111 27 59	MWD086-02	NA			NA			NA			NA			NA			0.41	0.50	U	NA			NA			NA		
		42 52 47	111 27 59	MWD086-03	NA			NA			NA			NA			NA			0.19	0.50	U	NA			NA			NA		
		42 52 47	111 27 59	MWD086-04	NA			NA			NA			NA			NA			0.084	0.50	U	NA			NA			NA		
		42 52 47	111 27 59	MWD086-05	NA			NA			NA			NA			NA			-0.032	0.50	U	NA			NA			NA		
	Henry Mine	42 52 47	111 27 59	MWD086-06	NA			NA			NA			NA			NA			0.032	0.50	U	NA			NA			NA		
	Center Pit	42 52 47	111 27 59	MWD086-07	NA			NA			NA			NA			NA			-0.042	0.50	U	NA			NA			NA		
Henry	#1	42 52 47	111 27 59	MWD086-08	NA			NA			NA			NA			NA			0.047	0.50	U	NA			NA			NA		
	Overburden	42 52 47	111 27 59	MWD086-09	NA			NA			NA			NA			NA			0.11	0.50	U	NA			NA			NA		
	Dump	42 52 47	111 27 59	MWD086-10	NA			NA			NA			NA			NA			-0.37	0.50	U	NA			NA			NA		
		42 52 47	111 27 59	MWD086-11	NA			NA			NA			NA			NA			-0.40	0.50	U	NA			NA			NA		
		42 52 47	111 27 59	MWD086-12	NA			NA			NA			NA			NA			-0.41	0.50	U	NA			NA			NA		
		42 52 47	111 27 59	MWD086-13	NA			NA			NA			NA			NA			-0.44	0.50	U	NA			NA			NA		
		42 52 47	111 27 59	MWD086-14	NA			NA			NA			NA			NA			0.90			NA			NA			NA		
		42 52 47	111 27 59	MWD086-15	NA			NA			NA			NA			NA			0.35	0.50	U	NA			NA			NA		
		42 52 47	111 27 59	MWD086-16	NA			NA			NA			NA			NA			0.20	0.50	U	NA			NA			NA		
		42 52 47	111 27 59	MWD086-17	NA			NA			NA			NA			NA			0.18	0.50	U	NA			NA			NA		
		42 52 47	111 27 59	MWD086-18	NA			NA			NA			NA			NA			0.15	0.50	U	NA			NA			NA		
		42 52 47	111 27 59	MWD086-19	NA			NA			NA			NA			NA			0.011	0.50	U	NA			NA			NA		
		42 52 47	111 27 59	MWD086-20	NA			NA			NA			NA			NA			0	0.50	U	NA			NA			NA		
		42 52 47	111 27 59	MWD086-21	NA			NA			NA			NA			NA			0.016	0.50	U	NA			NA			NA		
		42 52 47	111 27 59	MWD086-22	NA			NA			NA			NA			NA			0.090	0.50	U	NA			NA			NA		
		42 52 47	111 27 59	MWD086-23	NA			NA			NA			NA			NA			-0.32	0.50	U	NA			NA			NA		
		42 52 47	111 27 59	MWD086-24	NA			NA			NA			NA			NA			-0.46	0.50	U	NA			NA			NA		
		42 52 47	111 27 59	MWD086-25	NA			NA			NA			NA			NA			-0.33	0.50	U	NA			NA			NA		
		42 52 47	111 27 59	MWD086-26	NA			NA			NA			NA			NA			-0.47	0.50	U	NA			NA			NA		
Enoch	Enoch			MWD091-avg	NS			NS			25			10		J	1.3			NA			8.1		J	0.80			3.1		J
Valley	Valley Mine	42 49 17.90	111 24 07.40	MWD091	NS			NS			25			10		J	1.3			NA			8.1		J	0.80			3.1		J

Table 3: Upland Vegetation Analytical Historical Data (mg/kg, dw) continued																													
					Selenium																								
		Location			1998[d]			2001[i]			2004[p]			2004[p]			2004 (seasonal)[p]			2004 (mass wasting)[p]			2004[p]			2004[p]			2004[p]		
Mine	Name	Latitude	Longitude	ID	July	RL	Flag	Aug.-Sept.	RL	Flag	May	RL	Flag	June	RL	Flag	July	RL	Flag	July	RL	Flag	Aug.	RL	Flag	Sept.	RL	Flag	Oct.	RL	Flag
Enoch Valley	Enoch Valley Mine Waste Dump Location 1	42 51 56	111 23 48	MWD091-01	NA			NA			NA			NA			NA			16			NA			NA			NA		
		42 51 56	111 23 48	MWD091-02	NA			NA			NA			NA			NA			7.1			NA			NA			NA		
		42 51 56	111 23 48	MWD091-03	NA			NA			NA			NA			NA			3.3			NA			NA			NA		
		42 51 56	111 23 48	MWD091-04	NA			NA			NA			NA			NA			-0.049	0.50	U	NA			NA			NA		
		42 51 56	111 23 48	MWD091-05	NA			NA			NA			NA			NA			-0.0054	0.50	U	NA			NA			NA		
		42 51 56	111 23 48	MWD091-06	NA			NA			NA			NA			NA			-0.0054	0.50	U	NA			NA			NA		
		42 51 56	111 23 48	MWD091-07	NA			NA			NA			NA			NA			0.12	0.50	U	NA			NA			NA		
		42 51 56	111 23 48	MWD091-08	NA			NA			NA			NA			NA			-0.038	0.50	U	NA			NA			NA		
		42 51 56	111 23 48	MWD091-09	NA			NA			NA			NA			NA			-0.32	0.50	U	NA			NA			NA		
		42 51 56	111 23 48	MWD091-10	NA			NA			NA			NA			NA			-0.46	0.50	U	NA			NA			NA		
		42 51 56	111 23 48	MWD091-11	NA			NA			NA			NA			NA			0.16	0.50	U	NA			NA			NA		
		42 51 56	111 23 48	MWD091-12	NA			NA			NA			NA			NA			-0.18	0.50	U	NA			NA			NA		
		42 51 56	111 23 48	MWD091-13	NA			NA			NA			NA			NA			-0.21	0.50	U	NA			NA			NA		
		42 51 56	111 23 48	MWD091-14-avg	NA			NA			NA			NA			NA			10			NA			NA			NA		
		42 51 56	111 23 48	MWD091-14-R1	NA			NA			NA			NA			NA			10			NA			NA			NA		
		42 51 56	111 23 48	MWD091-14-R2	NA			NA			NA			NA			NA			11			NA			NA			NA		
		42 51 56	111 23 48	MWD091-14-R3	NA			NA			NA			NA			NA			10			NA			NA			NA		
		42 51 56	111 23 48	MWD091-15	NA			NA			NA			NA			NA			10			NA			NA			NA		
		42 51 56	111 23 48	MWD091-16	NA			NA			NA			NA			NA			7.0			NA			NA			NA		
		42 51 56	111 23 48	MWD091-17	NA			NA			NA			NA			NA			-0.14	0.50	U	NA			NA			NA		
		42 51 56	111 23 48	MWD091-18	NA			NA			NA			NA			NA			-0.22	0.50	U	NA			NA			NA		
		42 51 56	111 23 48	MWD091-19	NA			NA			NA			NA			NA			-0.25	0.50	U	NA			NA			NA		
		42 51 56	111 23 48	MWD091-20	NA			NA			NA			NA			NA			-0.23	0.50	U	NA			NA			NA		
		42 51 56	111 23 48	MWD091-21	NA			NA			NA			NA			NA			-0.23	0.50	U	NA			NA			NA		
		42 51 56	111 23 48	MWD091-22	NA			NA			NA			NA			NA			0.13	0.50	U	NA			NA			NA		
		42 51 56	111 23 48	MWD091-23	NA			NA			NA			NA			NA			-0.087	0.50	U	NA			NA			NA		
		42 51 56	111 23 48	MWD091-24	NA			NA			NA			NA			NA			-0.065	0.50	U	NA			NA			NA		
		42 51 56	111 23 48	MWD091-25	NA			NA			NA			NA			NA			-0.13	0.50	U	NA			NA			NA		
		42 51 56	111 23 48	MWD091-26	NA			NA			NA			NA			NA			-0.16	0.50	U	NA			NA			NA		

Table 3: Upland Vegetation Analytical Historical Data (mg/kg, dw) continued																														
					Selenium																									
		Location			1998[d]			2001[i]			2004[p]			2004[p]			2004 (seasonal)[p]			2004 (mass wasting)[p]			2004[p]			2004[p]			2004[p]		
Mine	Name	Latitude	Longitude	ID	July	RL	Flag	Aug.-Sept.	RL	Flag	May	RL	Flag	June	RL	Flag	July	RL	Flag	July	RL	Flag	Aug.	RL	Flag	Sept.	RL	Flag	Oct.	RL	Flag
Enoch Valley	Enoch Valley Mine Waste Dump Location 2	42 53 34	111 25 46	MWD091-27	NA			NA			NA			NA			NA			0.17	0.50	U	NA			NA			NA		
		42 53 34	111 25 46	MWD091-28	NA			NA			NA			NA			NA			0.016	0.50	U	NA			NA			NA		
		42 53 34	111 25 46	MWD091-29	NA			NA			NA			NA			NA			-0.11	0.50	U	NA			NA			NA		
		42 53 34	111 25 46	MWD091-30	NA			NA			NA			NA			NA			0.24	0.50	U	NA			NA			NA		
		42 53 34	111 25 46	MWD091-31	NA			NA			NA			NA			NA			0.17	0.50	U	NA			NA			NA		
		42 53 34	111 25 46	MWD091-32	NA			NA			NA			NA			NA			0.011	0.50	U	NA			NA			NA		
		42 53 34	111 25 46	MWD091-33	NA			NA			NA			NA			NA			0.27	0.50	U	NA			NA			NA		
		42 53 34	111 25 46	MWD091-34	NA			NA			NA			NA			NA			0.027	0.50	U	NA			NA			NA		
		42 53 34	111 25 46	MWD091-35	NA			NA			NA			NA			NA			0.38	0.50	U	NA			NA			NA		
		42 53 34	111 25 46	MWD091-36	NA			NA			NA			NA			NA			0.12	0.50	U	NA			NA			NA		
		42 53 34	111 25 46	MWD091-37	NA			NA			NA			NA			NA			0.092	0.50	U	NA			NA			NA		
		42 53 34	111 25 46	MWD091-38	NA			NA			NA			NA			NA			0.13	0.50	U	NA			NA			NA		
		42 53 34	111 25 46	MWD091-39	NA			NA			NA			NA			NA			0.22	0.50	U	NA			NA			NA		
		42 53 34	111 25 46	MWD091-40	NA			NA			NA			NA			NA			0.12	0.50	U	NA			NA			NA		
		42 53 34	111 25 46	MWD091-41	NA			NA			NA			NA			NA			0.096	0.50	U	NA			NA			NA		
		42 53 34	111 25 46	MWD091-42	NA			NA			NA			NA			NA			0.30	0.50	U	NA			NA			NA		
		42 53 34	111 25 46	MWD091-43	NA			NA			NA			NA			NA			0.10	0.50	U	NA			NA			NA		
		42 53 34	111 25 46	MWD091-44	NA			NA			NA			NA			NA			0.51	0.50	U	NA			NA			NA		
		42 53 34	111 25 46	MWD091-45	NA			NA			NA			NA			NA			0.12	0.50	U	NA			NA			NA		
		42 53 34	111 25 46	MWD091-46	NA			NA			NA			NA			NA			0.34	0.50	U	NA			NA			NA		
		42 53 34	111 25 46	MWD091-47	NA			NA			NA			NA			NA			0.48	0.50	U	NA			NA			NA		
		42 53 34	111 25 46	MWD091-48	NA			NA			NA			NA			NA			0.41	0.50	U	NA			NA			NA		
		42 53 34	111 25 46	MWD091-49	NA			NA			NA			NA			NA			0.48	0.50	U	NA			NA			NA		
		42 53 34	111 25 46	MWD091-50	NA			NA			NA			NA			NA			-0.20	0.50	U	NA			NA			NA		
		42 53 34	111 25 46	MWD091-51	NA			NA			NA			NA			NA			-0.18	0.50	U	NA			NA			NA		
		42 53 34	111 25 46	MWD091-52-avg	NA			NA			NA			NA			NA			-0.23	0.50	U	NA			NA			NA		
		42 53 34	111 25 46	MWD091-52-R1	NA			NA			NA			NA			NA			-0.22	0.50	U	NA			NA			NA		
		42 53 34	111 25 46	MWD091-52-R2	NA			NA			NA			NA			NA			-0.25	0.50	U	NA			NA			NA		
		42 53 34	111 25 46	MWD091-52-R3	NA			NA			NA			NA			NA			-0.22	0.50	U	NA			NA			NA		

Table 3: Upland Vegetation Analytical Historical Data (mg/kg, dw) continued																									
					Cadmium									Iron			Manganese						Aluminum		
		Location			1998[d]			2001[1]			2004[p]			1998[d]			1998[d]			2001[1]			2001[1]		
Mine	Name	Latitude	Longitude	ID	July	RL	Flag	Aug.-Sept.	RL	Flag	Sept.	RL	Flag	July	RL	Flag	July	RL	Flag	Aug.-Sept.	RL	Flag	Aug.-Sept.	RL	Flag
Ballard	Ballard Mine Pit #1 Overburden Dump #1			MWD080-avg	1.2			NS			NS			51			24			NS			NS		
		42 50 16.75	111 29 35.58	MWD080-P1	0.97			NA			NA			59			38			NA			NA		
		42 50 10.84	111 29 38.48	MWD080-P2-R1	0.98			NA			NA			37			20			NA			NA		
		42 50 10.84	111 29 38.48	MWD080-P2-R2	2.1			NA			NA			39			27			NA			NA		
		42 50 10.84	111 29 38.48	MWD080-P2-R2-D	2.3			NA			NA			40			27			NA			NA		
		42 50 10.84	111 29 38.48	MWD080-P2-R3	0.34			NA			NA			46			33			NA			NA		
		42 50 08.31	111 29 37.98	MWD080-P3	1.2			NA			NA			38			25			NA			NA		
		42 50 04.94	111 29 36.28	MWD080-P4	1.4			NA			NA			39			19			NA			NA		
		42 50 03.23	111 29 35.25	MWD080-P5	1.4			NA			NA			79			12			NA			NA		
	Ballard Mine Pit #1 Overburden Dump #2			MWD081-avg	NS			1.3			0.95			NS			NS			64		J	44		
		42 49.30.40	111 28.59.60	MWD081	NS			NA			0.95			NS			NS			NA			NA		
		42 49.30.40	111 28.59.60	MWD081-R1	NA			NA			NA			NA			NA			NA			NA		
		42 49.30.40	111 28.59.60	MWD081-R2	NA			NA			NA			NA			NA			NA			NA		
		42 49.30.40	111 28.59.60	MWD081-R3	NA			NA			NA			NA			NA			NA			NA		
		42 49.34.65	111 29.25.72	MWD081-P1	NA			1.3			NA			NA			NA			62		J	51		
		42 49.31.61	111 29.13.68	MWD081-P2-R1	NA			1.3			NA			NA			NA			72		J	35		
		42 49.31.61	111 29.13.68	MWD081-P2-R2	NA			1.4			NA			NA			NA			69		J	38		
		42 49.31.61	111 29.13.68	MWD081-P2-R3	NA			1.4			NA			NA			NA			75		J	39		
		42 49.21.77	111 29.20.50	MWD081-P3	NA			1.1			NA			NA			NA			59		J	44		
	Ballard Mine Pit #3 Overburden Dump			MWD082-avg	NS			NS			NS			NS			NS			NS			NS		
		42 49 34	111 28 18	MWD082-01	NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-02	NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-03	NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-04	NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-05	NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-06	NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-07	NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-08	NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-09	NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-10	NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-11	NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-12	NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-13	NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-14-avg	NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-14-R1	NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-14-R2	NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-14-R3	NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-15	NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-16	NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-17	NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-18	NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-19	NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-20	NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-21	NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-22	NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-23	NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-24	NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-25	NA			NA			NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-26	NA			NA			NA			NA			NA			NA			NA		

Table 3: Upland Vegetation Analytical Historical Data (mg/kg, dw) continued																								
					Cadmium									Iron			Manganese						Aluminum		
		Location			1998[d]			2001[1]			2004[p]			1998[d]			1998[d]			2001[1]			2001[1]		
Mine	Name	Latitude	Longitude	ID	July	RL	Flag	Aug.-Sept.	RL	Flag	Sept.	RL	Flag	July	RL	Flag	July	RL	Flag	Aug.-Sept.	RL	Flag	Aug.-Sept.	RL	Flag
Henry	Henry Mine North Pit Overburden Dump			MWD085-avg	NS			NS			NS			NS			NS			NS			NS		
		42 54 36	111 30 34	MWD085-01	NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-02	NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-03	NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-04	NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-05	NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-06	NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-07	NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-08	NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-09	NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-10	NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-11	NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-12	NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-13	NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-14	NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-15	NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-16	NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-17	NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-18	NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-19	NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-20	NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-21	NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-22	NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-23	NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-24	NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-25	NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-26-avg	NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-26-R1	NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-26-R2	NA			NA			NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-26-R3	NA			NA			NA			NA			NA			NA			NA		
	Henry Mine Center Pit #1 Overburden Dump #2[a]			MWD089-avg	0.79			NS			NS			36			30			NS			NS		
		42 52 57.87	111 28 49.96	MWD089-P1	0.78			NA			NA			33			39			NA			NA		
		42 52 54.28	111 28 48.78	MWD089-P2	1.1			NA			NA			35			40			NA			NA		
		42 52 54.43	111 28 44.47	MWD089-P3	0.49			NA			NA			34			25			NA			NA		
		42 52 54.43	111 28 44.47	MWD089-P3-D	NA			NA			NA			NA			NA			NA			NA		
		42 52 52.86	111 28 46.39	MWD089-P4	0.75			NA			NA			46			18			NA			NA		
		42 52 49.97	111 28 47.52	MWD089-P5	0.81			NA			NA			32			27			NA			NA		

Table 3: Upland Vegetation Analytical Historical Data (mg/kg, dw) continued																								
					Cadmium									Iron			Manganese						Aluminum		
		Location			1998[d]			2001[1]			2004[p]			1998[d]			1998[d]			2001[1]			2001[1]		
Mine	Name	Latitude	Longitude	ID	July	RL	Flag	Aug.-Sept.	RL	Flag	Sept.	RL	Flag	July	RL	Flag	July	RL	Flag	Aug.-Sept.	RL	Flag	Aug.-Sept.	RL	Flag
				MWD086-avg	NS			1.4			1.7			NS			NS			42		J	59		
		42 52 19.90	111 27 54.70	MWD086	NS			NA			1.7			NS			NS			NA			NA		
		42 52 19.90	111 27 54.70	MWD086-R1	NA			NA			NA			NA			NA			NA			NA		
		42 52 19.90	111 27 54.70	MWD086-R2	NA			NA			NA			NA			NA			NA			NA		
		42 52 19.90	111 27 54.70	MWD086-R3	NA			NA			NA			NA			NA			NA			NA		
		42 52 22.95	111 27 44.51	MWD086-P1	NA			0.94			NA			NA			NA			47		J	37		
		42 52 42.87	111 28 11.14	MWD086-P2	NA			1.5			NA			NA			NA			50		J	83		
		42 53 11.79	111 28 56.49	MWD086-P3	NA			1.8			NA			NA			NA			30		J	58		
		42 52 47	111 27 59	MWD086-01-avg	NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-01-R1	NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-01-R2	NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-01-R3	NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-02	NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-03	NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-04	NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-05	NA			NA			NA			NA			NA			NA			NA		
	Henry Mine	42 52 47	111 27 59	MWD086-06	NA			NA			NA			NA			NA			NA			NA		
	Center Pit	42 52 47	111 27 59	MWD086-07	NA			NA			NA			NA			NA			NA			NA		
Henry	#1	42 52 47	111 27 59	MWD086-08	NA			NA			NA			NA			NA			NA			NA		
	Overburden	42 52 47	111 27 59	MWD086-09	NA			NA			NA			NA			NA			NA			NA		
	Dump	42 52 47	111 27 59	MWD086-10	NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-11	NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-12	NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-13	NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-14	NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-15	NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-16	NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-17	NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-18	NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-19	NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-20	NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-21	NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-22	NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-23	NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-24	NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-25	NA			NA			NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-26	NA			NA			NA			NA			NA			NA			NA		
Enoch	Enoch			MWD091-avg	NS			NS			0.41			NS			NS			NS			NS		
Valley	Valley Mine	42 49 17.90	111 24 07.40	MWD091	NS			NS			0.41			NS			NS			NS			NS		

Table 3: Upland Vegetation Analytical Historical Data (mg/kg, dw) continued																								
					Cadmium									Iron			Manganese						Aluminum		
		Location			1998[d]			2001[1]			2004[p]			1998[d]			1998[d]			2001[1]			2001[1]		
Mine	Name	Latitude	Longitude	ID	July	RL	Flag	Aug.-Sept.	RL	Flag	Sept.	RL	Flag	July	RL	Flag	July	RL	Flag	Aug.-Sept.	RL	Flag	Aug.-Sept.	RL	Flag
Enoch Valley	Enoch Valley Mine Waste Dump Location 1	42 51 56	111 23 48	MWD091-01	NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-02	NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-03	NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-04	NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-05	NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-06	NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-07	NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-08	NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-09	NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-10	NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-11	NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-12	NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-13	NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-14-avg	NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-14-R1	NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-14-R2	NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-14-R3	NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-15	NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-16	NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-17	NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-18	NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-19	NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-20	NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-21	NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-22	NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-23	NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-24	NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-25	NA			NA			NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-26	NA			NA			NA			NA			NA			NA			NA		

Table 3: Upland Vegetation Analytical Historical Data (mg/kg, dw) continued																									
					Cadmium									Iron			Manganese						Aluminum		
		Location			1998[d]			2001[1]			2004[p]			1998[d]			1998[d]			2001[1]			2001[1]		
Mine	Name	Latitude	Longitude	ID	July	RL	Flag	Aug.-Sept.	RL	Flag	Sept.	RL	Flag	July	RL	Flag	July	RL	Flag	Aug.-Sept.	RL	Flag	Aug.-Sept.	RL	Flag
Enoch Valley	Enoch Valley Mine Waste Dump Location 2	42 53 34	111 25 46	MWD091-27	NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-28	NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-29	NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-30	NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-31	NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-32	NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-33	NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-34	NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-35	NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-36	NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-37	NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-38	NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-39	NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-40	NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-41	NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-42	NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-43	NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-44	NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-45	NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-46	NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-47	NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-48	NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-49	NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-50	NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-51	NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-52-avg	NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-52-R1	NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-52-R2	NA			NA			NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-52-R3	NA			NA			NA			NA			NA			NA			NA		

Table 3: Upland Vegetation Analytical Historical Data (mg/kg, dw) continued																			
					Antimony			Arsenic			Barium			Beryllium			Chromium		
		Location			2001[c]			2001[c]			2001[c]			2001[c]			2001[c]		
Mine	Name	Latitude	Longitude	ID	Aug.-Sept.	RL	Flag	Aug.-Sept.	RL	Flag	Aug.-Sept.	RL	Flag	Aug.-Sept.	RL	Flag	Aug.-Sept.	RL	Flag
Ballard	Ballard Mine Pit #1 Overburden Dump #1			MWD080-avg	NS			NS			NS			NS			NS		
		42 50 16.75	111 29 35.58	MWD080-P1	NA			NA			NA			NA			NA		
		42 50 10.84	111 29 38.48	MWD080-P2-R1	NA			NA			NA			NA			NA		
		42 50 10.84	111 29 38.48	MWD080-P2-R2	NA			NA			NA			NA			NA		
		42 50 10.84	111 29 38.48	MWD080-P2-R2-D	NA			NA			NA			NA			NA		
		42 50 10.84	111 29 38.48	MWD080-P2-R3	NA			NA			NA			NA			NA		
		42 50 08.31	111 29 37.98	MWD080-P3	NA			NA			NA			NA			NA		
		42 50 04.94	111 29 36.28	MWD080-P4	NA			NA			NA			NA			NA		
		42 50 03.23	111 29 35.25	MWD080-P5	NA			NA			NA			NA			NA		
	Ballard Mine Pit #1 Overburden Dump #2			MWD081-avg	0.13			0.68			17			0.011			1.0		J
		42 49.30.40	111 28.59.60	MWD081	NA			NA			NA			NA			NA		
		42 49.30.40	111 28.59.60	MWD081-R1	NA			NA			NA			NA			NA		
		42 49.30.40	111 28.59.60	MWD081-R2	NA			NA			NA			NA			NA		
		42 49.30.40	111 28.59.60	MWD081-R3	NA			NA			NA			NA			NA		
		42 49.34.65	111 29.25.72	MWD081-P1	0.058			0.98			16			0.013			1.2		J
		42 49.31.61	111 29.13.68	MWD081-P2-R1	0.17			0.29			13			0.0098	0.010	U	0.93		J
		42 49.31.61	111 29.13.68	MWD081-P2-R2	0.57			0.37			15			0.013			0.91		J
		42 49.31.61	111 29.13.68	MWD081-P2-R3	0.045			0.33			14			0.0081	0.010	U	0.99		J
		42 49.21.77	111 29.20.50	MWD081-P3	0.081			0.73			20			0.0094	0.010	U	0.91		J
	Ballard Mine Pit #3 Overburden Dump			MWD082-avg	NS			NS			NS			NS			NS		
		42 49 34	111 28 18	MWD082-01	NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-02	NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-03	NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-04	NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-05	NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-06	NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-07	NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-08	NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-09	NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-10	NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-11	NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-12	NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-13	NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-14-avg	NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-14-R1	NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-14-R2	NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-14-R3	NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-15	NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-16	NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-17	NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-18	NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-19	NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-20	NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-21	NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-22	NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-23	NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-24	NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-25	NA			NA			NA			NA			NA		
		42 49 34	111 28 18	MWD082-26	NA			NA			NA			NA			NA		

Table 3: Upland Vegetation Analytical Historical Data (mg/kg, dw) continued																			
					Antimony			Arsenic			Barium			Beryllium			Chromium		
		Location			2001[c]			2001[c]			2001[c]			2001[c]			2001[c]		
Mine	Name	Latitude	Longitude	ID	Aug.-Sept.	RL	Flag	Aug.-Sept.	RL	Flag	Aug.-Sept.	RL	Flag	Aug.-Sept.	RL	Flag	Aug.-Sept.	RL	Flag
Henry	Henry Mine North Pit Overburden Dump			MWD085-avg	NS			NS			NS			NS			NS		
		42 54 36	111 30 34	MWD085-01	NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-02	NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-03	NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-04	NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-05	NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-06	NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-07	NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-08	NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-09	NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-10	NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-11	NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-12	NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-13	NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-14	NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-15	NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-16	NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-17	NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-18	NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-19	NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-20	NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-21	NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-22	NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-23	NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-24	NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-25	NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-26-avg	NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-26-R1	NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-26-R2	NA			NA			NA			NA			NA		
		42 54 36	111 30 34	MWD085-26-R3	NA			NA			NA			NA			NA		
	Henry Mine Center Pit #1 Overburden Dump #2[a]			MWD089-avg	NS			NS			NS			NS			NS		
		42 52 57.87	111 28 49.96	MWD089-P1	NA			NA			NA			NA			NA		
		42 52 54.28	111 28 48.78	MWD089-P2	NA			NA			NA			NA			NA		
		42 52 54.43	111 28 44.47	MWD089-P3	NA			NA			NA			NA			NA		
		42 52 54.43	111 28 44.47	MWD089-P3-D	NA			NA			NA			NA			NA		
		42 52 52.86	111 28 46.39	MWD089-P4	NA			NA			NA			NA			NA		
		42 52 49.97	111 28 47.52	MWD089-P5	NA			NA			NA			NA			NA		

Table 3: Upland Vegetation Analytical Historical Data (mg/kg, dw) continued																			
					Antimony			Arsenic			Barium			Beryllium			Chromium		
		Location			2001[c]			2001[c]			2001[c]			2001[c]			2001[c]		
Mine	Name	Latitude	Longitude	ID	Aug.-Sept.	RL	Flag	Aug.-Sept.	RL	Flag	Aug.-Sept.	RL	Flag	Aug.-Sept.	RL	Flag	Aug.-Sept.	RL	Flag
				MWD086-avg	0.078			0.45			9.8			0.0096	0.0087<x<0.012	U	3.6		J
		42 52 19.90	111 27 54.70	MWD086	NA			NA			NA			NA			NA		
		42 52 19.90	111 27 54.70	MWD086-R1	NA			NA			NA			NA			NA		
		42 52 19.90	111 27 54.70	MWD086-R2	NA			NA			NA			NA			NA		
		42 52 19.90	111 27 54.70	MWD086-R3	NA			NA			NA			NA			NA		
		42 52 22.95	111 27 44.51	MWD086-P1	0.045			0.57			17			0.0029	0.010	U	0.74		J
		42 52 42.87	111 28 11.14	MWD086-P2	0.12			0.46			6.9			0.014			5.7		J
		42 53 11.79	111 28 56.49	MWD086-P3	0.068			0.32			5.4			0.012			3.7		J
		42 52 47	111 27 59	MWD086-01-avg	NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-01-R1	NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-01-R2	NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-01-R3	NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-02	NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-03	NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-04	NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-05	NA			NA			NA			NA			NA		
	Henry Mine	42 52 47	111 27 59	MWD086-06	NA			NA			NA			NA			NA		
	Center Pit	42 52 47	111 27 59	MWD086-07	NA			NA			NA			NA			NA		
Henry	#1	42 52 47	111 27 59	MWD086-08	NA			NA			NA			NA			NA		
	Overburden	42 52 47	111 27 59	MWD086-09	NA			NA			NA			NA			NA		
	Dump	42 52 47	111 27 59	MWD086-10	NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-11	NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-12	NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-13	NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-14	NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-15	NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-16	NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-17	NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-18	NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-19	NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-20	NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-21	NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-22	NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-23	NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-24	NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-25	NA			NA			NA			NA			NA		
		42 52 47	111 27 59	MWD086-26	NA			NA			NA			NA			NA		
Enoch	Enoch			MWD091-avg	NS			NS			NS			NS			NS		
Valley	Valley Mine	42 49 17.90	111 24 07.40	MWD091	NS			NS			NS			NS			NS		

Table 3: Upland Vegetation Analytical Historical Data (mg/kg, dw) continued																			
					Antimony			Arsenic			Barium			Beryllium			Chromium		
		Location			2001[c]			2001[c]			2001[c]			2001[c]			2001[c]		
Mine	Name	Latitude	Longitude	ID	Aug.-Sept.	RL	Flag	Aug.-Sept.	RL	Flag	Aug.-Sept.	RL	Flag	Aug.-Sept.	RL	Flag	Aug.-Sept.	RL	Flag
Enoch Valley	Enoch Valley Mine Waste Dump Location 1	42 51 56	111 23 48	MWD091-01	NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-02	NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-03	NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-04	NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-05	NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-06	NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-07	NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-08	NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-09	NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-10	NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-11	NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-12	NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-13	NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-14-avg	NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-14-R1	NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-14-R2	NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-14-R3	NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-15	NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-16	NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-17	NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-18	NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-19	NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-20	NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-21	NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-22	NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-23	NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-24	NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-25	NA			NA			NA			NA			NA		
		42 51 56	111 23 48	MWD091-26	NA			NA			NA			NA			NA		

Table 3: Upland Vegetation Analytical Historical Data (mg/kg, dw) continued																			
					Antimony			Arsenic			Barium			Beryllium			Chromium		
		Location			2001[c]			2001[c]			2001[c]			2001[c]			2001[c]		
Mine	Name	Latitude	Longitude	ID	Aug.-Sept.	RL	Flag	Aug.-Sept.	RL	Flag	Aug.-Sept.	RL	Flag	Aug.-Sept.	RL	Flag	Aug.-Sept.	RL	Flag
Enoch Valley	Enoch Valley Mine Waste Dump Location 2	42 53 34	111 25 46	MWD091-27	NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-28	NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-29	NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-30	NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-31	NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-32	NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-33	NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-34	NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-35	NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-36	NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-37	NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-38	NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-39	NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-40	NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-41	NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-42	NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-43	NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-44	NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-45	NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-46	NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-47	NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-48	NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-49	NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-50	NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-51	NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-52-avg	NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-52-R1	NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-52-R2	NA			NA			NA			NA			NA		
		42 53 34	111 25 46	MWD091-52-R3	NA			NA			NA			NA			NA		

Table 3: Upland Vegetation Analytical Historical Data (mg/kg, dw) continued																								
					Nickel						Vanadium						Zinc							
Mine	Station	Location			1998 [d]			2001[c]			1998 [d]			2001[c]			1998 [d]			2001[c]			2004 [p]		
	Name	Lat (deg min sec)	Long (deg min sec)	ID	July	RL	Flag	Aug.-Sept.	RL	Flag	July	RL	Flag	Aug.-Sept.	RL	Flag	July	RL	Flag	Aug.-Sept.	RL	Flag	Sept.	RL	Flag
Ballard	Ballard Mine Pit #1 Overburden Dump #1			MWD080-avg	8.4			NS			0.23	0.52	U	NS			75			NS			NS		
		42 50 16.75	111 29 35.58	MWD080-P1	2.2			NA			0.53			NA			63			NA			NA		
		42 50 10.84	111 29 38.48	MWD080-P2	NA			NA			NA			NA			NA			NA			NA		
		42 50 10.84	111 29 38.48	MWD080-P2-R1	5.8			NA			0.35	0.52	U	NA			78			NA			NA		
		42 50 10.84	111 29 38.48	MWD080-P2-R2	11			NA			0.039	0.52	U	NA			120			NA			NA		
		42 50 10.84	111 29 38.48	MWD080-P2-R2-D	12			NA			-0.21	0.52	U	NA			120			NA			NA		
		42 50 10.84	111 29 38.48	MWD080-P2-R3	0.43			NA			0.21	0.52	U	NA			1.1			NA			NA		
		42 50 08.31	111 29 37.98	MWD080-P3	2.8			NA			-0.029	0.52	U	NA			49			NA			NA		
		42 50 04.94	111 29 36.28	MWD080-P4	12			NA			0.25	0.52	U	NA			85			NA			NA		
		42 50 03.23	111 29 35.25	MWD080-P5	19			NA			1.3			NA			70			NA			NA		
	Ballard Mine Pit #1 Overburden Dump #2			MWD081-avg	NS			2.3			NS			0.77			NS			63		J	18		
		42 49 34.65	111 29.25.72	MWD081-P1	NA			2.8			NA			0.80			NA			82		J	NA		
		42 49 34.65	111 29.25.72	MWD081-P1-D	NA			NA			NA			NA			NA			NA			NA		
		42 49 31.61	111 29 13.68	MWD081-P2-R1	NA			1.8			NA			0.76			NA			72		J	NA		
		42 49 31.61	111 29 13.68	MWD081-P2-R2	NA			1.9			NA			0.80			NA			72		J	NA		
		42 49 31.61	111 29 13.68	MWD081-P2-R3	NA			2.0			NA			0.78			NA			70		J	NA		
		42 49 21.77	111 29 20.50	MWD081-P3	NA			2.1			NA			0.74			NA			37		J	NA		
Henry	Henry Mine Pit #1 Overburden Dump			MWD086-avg	NS			3.4			NS			1.7			NS			44		J	50		
		42 52 22.95	111 27 44.51	MWD086-P1	NA			1.8			NA			0.76			NA			36		J	NA		
		42 52 42.87	111 28 11.14	MWD086-P2	NA			4.5			NA			2.2			NA			56		J	NA		
		42 53 11.79	111 28 56.49	MWD086-P3	NA			4.0			NA			2.1			NA			41		J	NA		
	Henry Mine Center Pit #1 Overburden Dump #2[a]			MWD089-avg	2.8			NS			0.26	0.52	U	NS			52			NS			NS		
		42 52 57.87	111 28 49.96	MWD089-P1	3.4			NA			0.21	0.52	U	NA			94			NA			NA		
		42 52 54.28	111 28 48.78	MWD089-P2	1.6			NA			0.21	0.52	U	NA			48			NA			NA		
		42 52 54.43	111 28 44.47	MWD089-P3	2.3			NA			0.51	0.52	U	NA			44			NA			NA		
		42 52 54.43	111 28 44.47	MWD089-P4	3.9			NA			0.20	0.52	U	NA			45			NA			NA		
		42 52 52.86	111 28 46.39	MWD089-P4-D	NA			NA			NA			NA			NA			NA			NA		
		42 52 49.97	111 28 47.52	MWD089-P5	2.7			NA			0.19	0.52	U	NA			33			NA			NA		
Enoch Valley	Enoch Valley Mine Waste Dumps Combined	42 49 17.90	111 24 07.40	MWD091	NS			NS			NS			NS			NS			NS			28		

Table 3: Upland Vegetation Analytical Historical Data (mg/kg, dw) continued																								
					Copper						Lead			Mercury			Molybdenum						Silver		
Mine	Station	Location			2001[c]			2004[p]			2001[c]			2001[c]			2001[c]			2004[p]			2001[c]		
	Name	Lat (deg min sec)	Long (deg min sec)	ID	Aug.-Sept.	RL	Flag	Sept.	RL	Flag	Aug.-Sept.	RL	Flag	Aug.-Sept.	RL	Flag	Aug.-Sept.	RL	Flag	Sept.	RL	Flag	Aug.-Sept.	RL	Flag
Ballard	Ballard Mine Pit #1 Overburden Dump #1			MWD080-avg	NS			NS			NS			NS			NS			NS			NS		
		42 50 16.75	111 29 35.58	MWD080-P1	NA			NA			NA			NA			NA			NA			NA		
		42 50 10.84	111 29 38.48	MWD080-P2	NA			NA			NA			NA			NA			NA			NA		
		42 50 10.84	111 29 38.48	MWD080-P2-R1	NA			NA			NA			NA			NA			NA			NA		
		42 50 10.84	111 29 38.48	MWD080-P2-R2	NA			NA			NA			NA			NA			NA			NA		
		42 50 10.84	111 29 38.48	MWD080-P2-R2-D	NA			NA			NA			NA			NA			NA			NA		
		42 50 10.84	111 29 38.48	MWD080-P2-R3	NA			NA			NA			NA			NA			NA			NA		
		42 50 08.31	111 29 37.98	MWD080-P3	NA			NA			NA			NA			NA			NA			NA		
		42 50 04.94	111 29 36.28	MWD080-P4	NA			NA			NA			NA			NA			NA			NA		
		42 50 03.23	111 29 35.25	MWD080-P5	NA			NA			NA			NA			NA			NA			NA		
	Ballard Mine Pit #1 Overburden Dump #2			MWD081-avg	5.4		J	5.1	9.3	U	0.41			0.033	0.075	UJ	4.2			3.3		J	-0.016	0.010	U
		42 49 34.65	111 29.25.72	MWD081-P1	7.1		J	5.1	9.3	U	0.48			0.038	0.075	UJ	5.2			3.3		J	-0.017	0.010	U
		42 49 34.65	111 29.25.72	MWD081-P1-D	NA			NA			NA			0.026	0.075	UJ	NA			NA			NA		
		42 49 31.61	111 29 13.68	MWD081-P2-R1	4.6		J	NA			0.45			0.0040	0.075	UJ	3.3			NA			-0.020	0.010	U
		42 49 31.61	111 29 13.68	MWD081-P2-R2	5.0		J	NA			0.41			0.0010	0.075	UJ	3.6			NA			-0.013	0.010	U
		42 49 31.61	111 29 13.68	MWD081-P2-R3	5.0		J	NA			0.47			0.015	0.075	UJ	3.2			NA			-0.020	0.010	U
		42 49 21.77	111 29 20.50	MWD081-P3	4.1		J	NA			0.31			0.060	0.075	UJ	3.9			NA			-0.014	0.010	U
Henry	Henry Mine Pit #1 Overburden Dump			MWD086-avg	5.5		J	4.3	9.3	U	0.83			0.0083	0.075	UJ	2.9			13		J	-0.018	0.010	U
		42 52 22.95	111 27 44.51	MWD086-P1	3.7		J	4.3	9.3	U	0.26			0.0080	0.075	UJ	3.2			13		J	-0.024	0.010	U
		42 52 42.87	111 28 11.14	MWD086-P2	6.8		J	NA			1.7			0.0070	0.075	UJ	2.7			NA			-0.013	0.010	U
		42 53 11.79	111 28 56.49	MWD086-P3	5.9		J	NA			0.53			0.010	0.075	UJ	2.7			NA			-0.018	0.010	U
	Henry Mine Center Pit #1 Overburden Dump #2[a]			MWD089-avg	NS			NS			NS			NS			NS			NS			NS		
		42 52 57.87	111 28 49.96	MWD089-P1	NA			NA			NA			NA			NA			NA			NA		
		42 52 54.28	111 28 48.78	MWD089-P2	NA			NA			NA			NA			NA			NA			NA		
		42 52 54.43	111 28 44.47	MWD089-P3	NA			NA			NA			NA			NA			NA			NA		
		42 52 54.43	111 28 44.47	MWD089-P4	NA			NA			NA			NA			NA			NA			NA		
		42 52 52.86	111 28 46.39	MWD089-P4-D	NA			NA			NA			NA			NA			NA			NA		
		42 52 49.97	111 28 47.52	MWD089-P5	NA			NA			NA			NA			NA			NA			NA		
Enoch Valley	Enoch Valley Mine Waste Dumps Combined	42 49 17.90	111 24 07.40	MWD091	NS			2.7	9.3	U	NS			NS			NS			3.7		J	NS		

Table 3: Upland Vegetation Analytical Historical Data (mg/kg, dw) continued													
					Sulfate			Thallium			Uranium		
Mine	Station	Location			1998 [d]			2001[c]			2001[c]		
	Name	Lat (deg min sec)	Long (deg min sec)	ID	Fall	RL	Flag	Aug.-Sept.	RL	Flag	Aug.-Sept.	RL	Flag
Ballard	Ballard Mine Pit #1 Overburden Dump #1			MWD080-avg	11000			NS			NS		
		42 50 16.75	111 29 35.58	MWD080-P1	11000			NA			NA		
		42 50 10.84	111 29 38.48	MWD080-P2	25000			NA			NA		
		42 50 10.84	111 29 38.48	MWD080-P2-R1	NA			NA			NA		
		42 50 10.84	111 29 38.48	MWD080-P2-R2	NA			NA			NA		
		42 50 10.84	111 29 38.48	MWD080-P2-R2-D	NA			NA			NA		
		42 50 10.84	111 29 38.48	MWD080-P2-R3	NA			NA			NA		
		42 50 08.31	111 29 37.98	MWD080-P3	13000			NA			NA		
		42 50 04.94	111 29 36.28	MWD080-P4	1700			NA			NA		
		42 50 03.23	111 29 35.25	MWD080-P5	1000			NA			NA		
	Ballard Mine Pit #1 Overburden Dump #2			MWD081-avg	NS			0.061	0.10	U	0.047		
		42 49 34.65	111 29.25.72	MWD081-P1	NA			0.040	0.10	U	0.058		
		42 49 34.65	111 29.25.72	MWD081-P1-D	NA			NA			NA		
		42 49 31.61	111 29 13.68	MWD081-P2-R1	NA			0.052	0.10	U	0.042		
		42 49 31.61	111 29 13.68	MWD081-P2-R2	NA			0.069	0.10	U	0.061		
		42 49 31.61	111 29 13.68	MWD081-P2-R3	NA			0.052	0.10	U	0.039	0.040	U
		42 49 21.77	111 29 20.50	MWD081-P3	NA			0.084	0.10	U	0.037	0.040	U
Henry	Henry Mine Pit #1 Overburden Dump			MWD086-avg	NS			0.30			0.089	0.081<x<0.094	U
		42 52 22.95	111 27 44.51	MWD086-P1	NA			0.068	0.10	U	0.025	0.040	U
		42 52 42.87	111 28 11.14	MWD086-P2	NA			0.36			0.15		
		42 53 11.79	111 28 56.49	MWD086-P3	NA			0.42			0.093		
	Henry Mine Center Pit #1 Overburden Dump #2[a]			MWD089-avg	1300			NS			NS		
		42 52 57.87	111 28 49.96	MWD089-P1	620			NA			NA	0	
		42 52 54.28	111 28 48.78	MWD089-P2	560			NA			NA		
		42 52 54.43	111 28 44.47	MWD089-P3	2700			NA			NA		
		42 52 54.43	111 28 44.47	MWD089-P4	1600			NA			NA		
		42 52 52.86	111 28 46.39	MWD089-P4-D	1500			NA			NA		
		42 52 49.97	111 28 47.52	MWD089-P5	880			NA			NA		
Enoch Valley	Enoch Valley Mine Waste Dumps Combined	42 49 17.90	111 24 07.40	MWD091	NS			NS			NS		

Notes:

Laboratory duplicates (D, D1) and field replicates (R1, R2, R3) are shown as unaveraged as well as averaged where appropriate.

Coordinates are in Geographic format (deg min decimal seconds) and use datum NAD27, except for 2001 data which uses WGS84.

Data qualifier definitions are:

p - Data were utilized in the *Phase 1 Site Investigation for Enoch Valley, Henry, and Ballard Mines, Draft Interim Phase 1 Sis Evaluation Summary.*

c - Data were utilized in the MWH, 2002, *Final - Summer 2001 Area-Wide Investigation Data Summary, Southeast Idaho Phosphate Resource Area Selenium Project.*

d - Data utilized in the MWH, 1999, *1998 Regional Investigation Report: Southeast Idaho Phosphate Resource Area Selenium Project.*

(a) Since the 1998 sampling, MWD089 has been combined with MWD086 and is now considered one waste dump.

(U) - The material was analyzed for, but was not detected above the level of the associated value. The associated value is the sample reporting limit.

(J) - The result is an estimated quantity.

(R) - The data are unusable.

(UJ) - The material was analyzed for, but was not detected above the level of the associated value. The result is an estimate and may be inaccurate or imprecise.

RL - Reporting Limit.

NA - Not Applicable.

NS - Not Sampled.

Table 4: Enoch Valley Mine - Upland Vegetation Analytical Historical Data (mg/kg, dw)[a]														
			Selenium			Cadmium			Chromium			Nickel		
			2000			2000			2000			2000		
ID	Waste Dump	Soil Type	Summer	RL	Flag	Summer	RL	Flag	Summer	RL	Flag	Summer	RL	Flag
Bat Cave TOST	NA	Top Soil Stockpile	0.11			0.50			<0.50	0.50	U	0.75		
BLSH02	NA	Black Shale	12			1.7			1.6			9.5		
BLSH03	NA	Black Shale	3.0			1.9			5.6			2.1		
BLSH01	NA	Black Shale	45			3.5			4.5			20		
BRSH05-avg	MWD091	Brown Shale	6.8			3.8			0.96			20		
BRSH05-R1	MWD091	Brown Shale	6.8			3.9			0.98			20		
BRSH05-R2	MWD091	Brown Shale	6.8			3.7			0.94			21		0
BRSH05-R3	MWD091	Brown Shale	6.8			3.7			<0.50	0.50	U	20		
BRSH06-avg	MWD091	Brown Shale	4.0			3.4			0.92			11		
BRSH06	MWD091	Brown Shale	4.1			3.4			0.92			11		
BRSH06-D	MWD091	Brown Shale	3.9			NA			NA			NA		
BRSH07	MWD091	Brown Shale	3.5			1.2			1.9			6.9		
BRSH08	MWD091	Brown Shale	22			1.2			1.5			8.4		
BRSH09	MWD091	Brown Shale	5.9			1.4			0.82			8.0		
BRSH01	MWD091	Brown Shale	0.25			<0.14	0.14	U	<0.50	0.50	U	0.94		
BRSH02	MWD091	Brown Shale	4.2			1.9			1.6			4.0		
BRSH03-avg	MWD091	Brown Shale	2.0			0.54			<0.50	0.50	U	1.7		
BRSH03	MWD091	Brown Shale	2.0			0.51			<0.50	0.50	U	2.0		
BRSH03-D	MWD091	Brown Shale	NA			0.57			<0.50	0.50	U	NA		
BRSH04-avg	MWD091	Brown Shale	4.9			1.0			2.0			4.3		
BRSH04-R1	MWD091	Brown Shale	4.8			1.2			2.4			4.0		
BRSH04-R2	MWD091	Brown Shale	4.6			1.1			1.8			4.0		
BRSH04-R3	MWD091	Brown Shale	5.2			0.76			1.7			4.8		
CHSH01	MWD092	Cherty Shale	16			1.5			1.4			3.5		
CHSH02	MWD092	Cherty Shale	21			2.5			0.94			7.6		
CHSH03	MWD092	Cherty Shale	15			2.6			2.0			6.1		
CHSH04	MWD092	Cherty Shale	21			1.5			1.2			3.4		
CHSH05	MWD092	Cherty Shale	25			5.0			1.4			5.2		
CHSH06	MWD092	Cherty Shale	54			2.7			1.1			9.8		
Middle West TOST	NA	Top Soil Stockpile	0.34			0.52			1.4			0.84		
SRBG01	NA	Background	0.15			0.59			<0.50	0.50	U	1.8		
SRBG02	NA	Background	0.57			1.1			2.2			1.9		
SRBG03-avg	NA	Background	0.13			1.1			2.9			4.7		
SRBG03	NA	Background	0.13			1.3			2.7			4.2		
SRBG03-D	NA	Background	NA			0.86			3.0			5.2		
SRBG04	NA	Background	0.23			2.9			1.6			1.4		
SRBG05	NA	Background	0.22			0.73			0.53			0.98		
SRBG06-avg	NA	Background	0.16			1.9			0.22<x<0.56	0.22<x<0.56	U	0.51		
SRBG06-R1	NA	Background	0.16			1.8			0.67			0.65		
SRBG06-R2	NA	Background	0.16			1.7			<0.50	0.50	U	0.60		
SRBG06-R3	NA	Background	0.17			2.1			<0.50	0.50	U	0.27		
TOCO 11-avg	MWD091/MWD092	Top Soil Cover	2.5			3.5			6.1			4.6		
TOCO 11	MWD091/MWD092	Top Soil Cover	2.5			3.5			6.1			4.6		
TOCO 11-D	MWD091/MWD092	Top Soil Cover	2.5			NA			NA			NA		
TOCO 12	MWD091/MWD092	Top Soil Cover	7.4			7.4			7.1			12		
TOCO 13	MWD091/MWD092	Top Soil Cover	1.3			0.29			0.87			1.2		
TOCO 14	MWD091/MWD092	Top Soil Cover	2.2			3.1			2.1			8.1		
TOCO 15	MWD091/MWD092	Top Soil Cover	14			1.5			1.8			6.3		
TOCO 16	MWD091/MWD092	Top Soil Cover	4.8			3.8			1.8			3.8		
TOCO 17	MWD091/MWD092	Top Soil Cover	1.9			<0.14	0.14	U	0.60			1.7		
TOCO 18	MWD091/MWD092	Top Soil Cover	8.3			2.1			1.8			4.6		
TOCO 19-avg	MWD091/MWD092	Top Soil Cover	100			0.91			1.6			4.8		
TOCO 19	MWD091/MWD092	Top Soil Cover	99			0.93			1.7			5.0		
TOCO 19-D	MWD091/MWD092	Top Soil Cover	100			0.88			1.4			4.5		
TOCO 20-avg	MWD091/MWD092	Top Soil Cover	3.2			1.6			1.5			3.3		
TOCO 20	MWD091/MWD092	Top Soil Cover	3.2			1.6			1.5			3.3		
TOCO 20-D	MWD091/MWD092	Top Soil Cover	3.1			NA			NA			NA		
TOCO 21-avg	MWD091/MWD092	Top Soil Cover	10			3.7			3.6			15		
TOCO 21	MWD091/MWD092	Top Soil Cover	10			3.7			3.6			15		
TOCO 21-D	MWD091/MWD092	Top Soil Cover	10			NA			NA			NA		
TOCO 22	MWD091/MWD092	Top Soil Cover	4.9			2.1			0.54			6.4		
TOCO 23	MWD091/MWD092	Top Soil Cover	4.2			1.3			3.0			3.2		
TOCO 24	MWD091/MWD092	Top Soil Cover	2.5			<0.14	0.14	U	0.51			1.6		
TOCO 25	MWD091/MWD092	Top Soil Cover	8.2			2.6			0.96			12		
TOCO 26	MWD091/MWD092	Top Soil Cover	2.2			0.81			0.74			5.3		
TOCO 27	MWD091/MWD092	Top Soil Cover	3.8			1.4			1.3			7.8		
TOCO 28	MWD091/MWD092	Top Soil Cover	7.5			2.3			0.82			8.6		
TOCO 30	MWD091/MWD092	Top Soil Cover	4.6			0.63			1.7			7.3		
TOCO 31	MWD091/MWD092	Top Soil Cover	11			2.8			3.6			10		
TOCO 32	MWD091/MWD092	Top Soil Cover	11			2.1			2.4			26		
TOCO 33-avg	MWD091/MWD092	Top Soil Cover	6.5			0.94			1.9			8.3		
TOCO 33-R1	MWD091/MWD092	Top Soil Cover	6.7			1.0			2.0			7.9		
TOCO 33-R2	MWD091/MWD092	Top Soil Cover	6.5			0.85			1.6			8.5		
TOCO 33-R3	MWD091/MWD092	Top Soil Cover	6.2			0.98			2.2			8.6		
TOCO 34	MWD091/MWD092	Top Soil Cover	0.96			1.4			0.83			2.6		
TOCO 35	MWD091/MWD092	Top Soil Cover	7.7			1.4			1.8			6.6		
TOCO 36	MWD091/MWD092	Top Soil Cover	<0.040	0.040	U	1.3			2.9			11		
TOCO 37	MWD091/MWD092	Top Soil Cover	11			1.5			<0.50	0.50	U	12		
TOCO 38	MWD091/MWD092	Top Soil Cover	110			1.7			1.5			13		
TOCO 39	MWD091/MWD092	Top Soil Cover	21			0.26			0.93			2		
TOCO 40	MWD091/MWD092	Top Soil Cover	12			0.93			<0.50	0.50	U	1.6		

Table 4: Enoch Valley Mine - Upland Vegetation Analytical Historical Data (mg/kg, dw)[a] continued														
			Selenium			Cadmium			Chromium			Nickel		
			2000			2000			2000			2000		
ID	Waste Dump	Soil Type	Summer	RL	Flag	Summer	RL	Flag	Summer	RL	Flag	Summer	RL	Flag
TOCO 41-avg	MWD091/MWD092	Top Soil Cover	2.0			0.39			1.2			2.0		
TOCO 41	MWD091/MWD092	Top Soil Cover	2.0			0.34			1.0			1.9		
TOCO 41-D	MWD091/MWD092	Top Soil Cover	NA			0.44			1.3			2.1		
TOCO 42	MWD091/MWD092	Top Soil Cover	8.6			1.1			1.5			11		
TOCO 43-avg	MWD091/MWD092	Top Soil Cover	5.7			0.21			0.72			3.2		
TOCO 43	MWD091/MWD092	Top Soil Cover	5.2			0.21			0.72			3.2		
TOCO 43-D	MWD091/MWD092	Top Soil Cover	6.2			NA			NA			NA		
TOCO 44	MWD091/MWD092	Top Soil Cover	1.9			1.5			<0.50	0.50	U	2.9		
TOCO 45-avg	MWD091/MWD092	Top Soil Cover	5.8			0.78			1.7			4.4		
TOCO 45	MWD091/MWD092	Top Soil Cover	5.8			0.78			1.7			4.4		
TOCO 45-D	MWD091/MWD092	Top Soil Cover	5.8			NA			NA			NA		
TOCO 46	MWD091/MWD092	Top Soil Cover	3.1			0.99			0.83			2.2		
TOCO 48	MWD091/MWD092	Top Soil Cover	1.1			1.6			<0.50	0.50	U	3.7		
TOCO 49-avg	MWD091/MWD092	Top Soil Cover	8.3			1.6			1.3			2.5		
TOCO 49	MWD091/MWD092	Top Soil Cover	8.3			1.7			1.3			2.2		
TOCO 49-D	MWD091/MWD092	Top Soil Cover	NA			1.4			1.3			2.8		
TOCO 50	MWD091/MWD092	Top Soil Cover	0.20			<0.14	0.14	U	<0.50	0.50	U	<0.25	0.25	U
TOCO 51-avg	MWD091/MWD092	Top Soil Cover	17			1.4			0.24<x<0.58	0.24<x<0.58	U	2.1		
TOCO 51-R1	MWD091/MWD092	Top Soil Cover	15			1.3			<0.50	0.50	U	2.0		
TOCO 51-R2	MWD091/MWD092	Top Soil Cover	22			1.4			<0.50	0.50	U	2.1		
TOCO 51-R3	MWD091/MWD092	Top Soil Cover	15			1.6			0.73			2.0		
TOCO 54-avg	MWD091/MWD092	Top Soil Cover	5.4			0.96			2.1			6.6		
TOCO 54	MWD091/MWD092	Top Soil Cover	5.4			0.96			2.2			6.3		
TOCO 54-D	MWD091/MWD092	Top Soil Cover	NA			0.96			2.0			6.8		
TOCO 55	MWD091/MWD092	Top Soil Cover	4.8			0.87			1.7			1.3		
TOCO 56	MWD091/MWD092	Top Soil Cover	9.2			2.3			1.7			6.3		
TOCO 57	MWD091/MWD092	Top Soil Cover	4.3			2.0			0.80			2.7		
TOCO 58	MWD091/MWD092	Top Soil Cover	15			3.0			1.3			17		
TOCO 59-avg	MWD091/MWD092	Top Soil Cover	12			0.78			0.39<x<0.54	0.39<x<0.54	U	1.2		
TOCO 59-R1	MWD091/MWD092	Top Soil Cover	11			0.79			0.53			1.5		
TOCO 59-R2	MWD091/MWD092	Top Soil Cover	12			0.71			0.63			1.2		
TOCO 59-R3	MWD091/MWD092	Top Soil Cover	12			0.83			<0.50	0.50	U	0.92		
TOCO 60	MWD091/MWD092	Top Soil Cover	9.8			2.1			1.8			8.3		
TOCO 61	MWD091/MWD092	Top Soil Cover	26			3.5			5.7			11		
TOCO 62	MWD091/MWD092	Top Soil Cover	6.4			3.4			1.3			3.6		
TOCO 63-avg	MWD091/MWD092	Top Soil Cover	9.3			1.6			3.0			3.5		
TOCO 63	MWD091/MWD092	Top Soil Cover	9.4			1.6			3.0			3.5		
TOCO 63-D	MWD091/MWD092	Top Soil Cover	9.2			NA			NA			NA		
TOCO 64	MWD091/MWD092	Top Soil Cover	3.7			0.57			<0.50	0.50	U	4.1		
TOCO01	MWD091/MWD092	Top Soil Cover	24			1.8			<0.50	0.50	U	4.2		
TOCO02	MWD091/MWD092	Top Soil Cover	12			2.9			0.60			7.6		
TOCO03	MWD091/MWD092	Top Soil Cover	18			1.5			<0.50	0.50	U	4.6		
TOCO04	MWD091/MWD092	Top Soil Cover	10			0.83			<0.50	0.50	U	2.8		
TOCO07	MWD091/MWD092	Top Soil Cover	12			1.0			<0.50	0.50	U	0.68		
TOST 01	NA	Top Soil Stockpile	1.2			1.1			2.8			0.46		
TOST 02	NA	Top Soil Stockpile	0.094			0.22			<0.50	0.50	U	<0.25	0.25	U
TOST 03-avg	NA	Top Soil Stockpile	0.15			0.21			0.29<x<0.54	0.29<x<0.54	U	0.60<x<0.73	0.60<x<0.73	U
TOST 03	NA	Top Soil Stockpile	0.15			0.16			0.58			1.2		
TOST 03-D	NA	Top Soil Stockpile	NA			0.25			<0.50	0.50	U	<0.25	0.25	U

Table 4: Enoch Valley Mine - Upland Vegetation Analytical Historical Data (mg/kg, dw)[a] continued														
			Zinc			Cobalt			Copper			Iron		
			2000			2000			2000			2000		
ID	Waste Dump	Soil Type	Summer	RL	Flag	Summer	RL	Flag	Summer	RL	Flag	Summer	RL	Flag
Bat Cave TOST	NA	Top Soil Stockpile	25			<0.57	0.57	U	4.9			76		
BLSH02	NA	Black Shale	56			<0.57	0.57	U	4.7			70		
BLSH03	NA	Black Shale	36			<0.57	0.57	U	7.2			320		
BLSH01	NA	Black Shale	100			<0.57	0.57	U	4.9			110		
BRSH05-avg	MWD091	Brown Shale	81			<0.57	0.57	U	6.5			89		
BRSH05-R1	MWD091	Brown Shale	79			<0.57	0.57	U	6.0			93		
BRSH05-R2	MWD091	Brown Shale	81			<0.57	0.57	U	6.4			85		
BRSH05-R3	MWD091	Brown Shale	82			<0.57	0.57	U	7.1			90		
BRSH06-avg	MWD091	Brown Shale	64			<0.57	0.57	U	22			110		
BRSH06	MWD091	Brown Shale	64			<0.57	0.57	U	22			110		
BRSH06-D	MWD091	Brown Shale	NA			NA			NA			NA		
BRSH07	MWD091	Brown Shale	42			<0.57	0.57	U	3.5			100		
BRSH08	MWD091	Brown Shale	39			<0.57	0.57	U	4.8			88		
BRSH09	MWD091	Brown Shale	43			<0.57	0.57	U	3.7			63		
BRSH01	MWD091	Brown Shale	13			<0.57	0.57	U	4.7			60		
BRSH02	MWD091	Brown Shale	62			<0.57	0.57	U	4.4			100		
BRSH03-avg	MWD091	Brown Shale	32			<0.57	0.57	U	5.2			55		
BRSH03	MWD091	Brown Shale	32			<0.57	0.57	U	5.1			53		
BRSH03-D	MWD091	Brown Shale	32			<0.57	0.57	U	5.2			57		
BRSH04-avg	MWD091	Brown Shale	46			<0.57	0.57	U	3.2			83		
BRSH04-R1	MWD091	Brown Shale	49			<0.57	0.57	U	3.4			110		
BRSH04-R2	MWD091	Brown Shale	45			<0.57	0.57	U	3.0			68		
BRSH04-R3	MWD091	Brown Shale	44			<0.57	0.57	U	3.1			72		
CHSH01	MWD091	Cherty Shale	39			<0.57	0.57	U	4.1			73		
CHSH02	MWD091	Cherty Shale	54			<0.57	0.57	U	4.3			80		
CHSH03	MWD091	Cherty Shale	63			<0.57	0.57	U	3.9			120		
CHSH04	MWD091	Cherty Shale	35			<0.57	0.57	U	3.4			73		
CHSH05	MWD091	Cherty Shale	58			<0.57	0.57	U	4.8			92		
CHSH06	MWD091	Cherty Shale	55			<0.57	0.57	U	4.0			77		
Middle West TOS	NA	Top Soil Stockpile	30			<0.57	0.57	U	5.7			96		
SRBG01	NA	Background	47			<0.57	0.57	U	5.1			63		
SRBG02	NA	Background	120			<0.57	0.57	U	9.3			140		
SRBG03-avg	NA	Background	150			<0.57	0.57	U	7.1			140		
SRBG03	NA	Background	140			<0.57	0.57	U	7.2			130		
SRBG03-D	NA	Background	150			<0.57	0.57	U	7.0			140		
SRBG04	NA	Background	48			<0.57	0.57	U	6.6			200		
SRBG05	NA	Background	49			<0.57	0.57	U	6.6			78		
SRBG06-avg	NA	Background	66			<0.57	0.57	U	12			80		
SRBG06-R1	NA	Background	66			<0.57	0.57	U	8.6			80		
SRBG06-R2	NA	Background	65			<0.57	0.57	U	8.6			79		
SRBG06-R3	NA	Background	66			<0.57	0.57	U	20			81		
TOCO 11-avg	MWD091/MWD092	Top Soil Cover	52			<0.57	0.57	U	6.5			200		
TOCO 11	MWD091/MWD092	Top Soil Cover	52			<0.57	0.57	U	6.5			200		
TOCO 11-D	MWD091/MWD092	Top Soil Cover	NA			NA			NA			NA		
TOCO 12	MWD091/MWD092	Top Soil Cover	160			<0.57	0.57	U	7.9			480		
TOCO 13	MWD091/MWD092	Top Soil Cover	26			<0.57	0.57	U	4.6			58		
TOCO 14	MWD091/MWD092	Top Soil Cover	79			<0.57	0.57	U	5.7			200		
TOCO 15	MWD091/MWD092	Top Soil Cover	46			<0.57	0.57	U	4.3			89		
TOCO 16	MWD091/MWD092	Top Soil Cover	66			<0.57	0.57	U	6.5			180		
TOCO 17	MWD091/MWD092	Top Soil Cover	20			<0.57	0.57	U	4.2			78		
TOCO 18	MWD091/MWD092	Top Soil Cover	55			<0.57	0.57	U	5.3			170		
TOCO 19-avg	MWD091/MWD092	Top Soil Cover	61			<0.57	0.57	U	6.5			150		
TOCO 19	MWD091/MWD092	Top Soil Cover	62			<0.57	0.57	U	6.6			150		
TOCO 19-D	MWD091/MWD092	Top Soil Cover	59			<0.57	0.57	U	6.3			140		
TOCO 20-avg	MWD091/MWD092	Top Soil Cover	52			<0.57	0.57	U	5.3			150		
TOCO 20	MWD091/MWD092	Top Soil Cover	52			<0.57	0.57	U	5.3			150		
TOCO 20-D	MWD091/MWD092	Top Soil Cover	NA			NA			NA			NA		
TOCO 21-avg	MWD091/MWD092	Top Soil Cover	110			<0.57	0.57	U	13			280		
TOCO 21	MWD091/MWD092	Top Soil Cover	110			<0.57	0.57	U	13			280		
TOCO 21-D	MWD091/MWD092	Top Soil Cover	NA			NA			NA			NA		
TOCO 22	MWD091/MWD092	Top Soil Cover	40			<0.57	0.57	U	6.2			81		
TOCO 23	MWD091/MWD092	Top Soil Cover	64			<0.57	0.57	U	5.9			200		
TOCO 24	MWD091/MWD092	Top Soil Cover	28			<0.57	0.57	U	4.4			68		
TOCO 25	MWD091/MWD092	Top Soil Cover	58			<0.57	0.57	U	6.0			93		
TOCO 26	MWD091/MWD092	Top Soil Cover	50			<0.57	0.57	U	7.2			260		
TOCO 27	MWD091/MWD092	Top Soil Cover	72			<0.57	0.57	U	8.1			110		
TOCO 28	MWD091/MWD092	Top Soil Cover	50			<0.57	0.57	U	6.1			150		
TOCO 30	MWD091/MWD092	Top Soil Cover	52			<0.57	0.57	U	5.2			220		
TOCO 31	MWD091/MWD092	Top Soil Cover	86			<0.57	0.57	U	6.2			200		
TOCO 32	MWD091/MWD092	Top Soil Cover	130			<0.57	0.57	U	4.3			240		
TOCO 33-avg	MWD091/MWD092	Top Soil Cover	52			<0.57	0.57	U	4.8			170		
TOCO 33-R1	MWD091/MWD092	Top Soil Cover	52			<0.57	0.57	U	4.7			180		
TOCO 33-R2	MWD091/MWD092	Top Soil Cover	52			<0.57	0.57	U	4.8			160		
TOCO 33-R3	MWD091/MWD092	Top Soil Cover	51			<0.57	0.57	U	5.0			160		
TOCO 34	MWD091/MWD092	Top Soil Cover	58			<0.57	0.57	U	5.6			120		
TOCO 35	MWD091/MWD092	Top Soil Cover	77			<0.57	0.57	U	5.1			170		
TOCO 36	MWD091/MWD092	Top Soil Cover	58			<0.57	0.57	U	6.4			170		
TOCO 37	MWD091/MWD092	Top Soil Cover	100			<0.57	0.57	U	6.6			90		
TOCO 38	MWD091/MWD092	Top Soil Cover	75			<0.57	0.57	U	4.8			89		
TOCO 39	MWD091/MWD092	Top Soil Cover	24			<0.57	0.57	U	5.3			91		
TOCO 40	MWD091/MWD092	Top Soil Cover	31			<0.57	0.57	U	4.8			100		

Table 4: Enoch Valley Mine - Upland Vegetation Analytical Historical Data (mg/kg, dw)[a] continued														
			Zinc			Cobalt			Copper			Iron		
			2000			2000			2000			2000		
ID	Waste Dump	Soil Type	Summer	RL	Flag	Summer	RL	Flag	Summer	RL	Flag	Summer	RL	Flag
TOCO 41-avg	MWD091/MWD092	Top Soil Cover	27			<0.57	0.57	U	4.8			130		
TOCO 41	MWD091/MWD092	Top Soil Cover	27			<0.57	0.57	U	4.6			130		
TOCO 41-D	MWD091/MWD092	Top Soil Cover	27			<0.57	0.57	U	4.9			130		
TOCO 42	MWD091/MWD092	Top Soil Cover	62			<0.57	0.57	U	5.5			160		
TOCO 43-avg	MWD091/MWD092	Top Soil Cover	34			<0.57	0.57	U	5.3			78		
TOCO 43	MWD091/MWD092	Top Soil Cover	34			<0.57	0.57	U	5.3			78		
TOCO 43-D	MWD091/MWD092	Top Soil Cover	NA			NA			NA			NA		
TOCO 44	MWD091/MWD092	Top Soil Cover	41			<0.57	0.57	U	6.2			81		
TOCO 45-avg	MWD091/MWD092	Top Soil Cover	33			<0.57	0.57	U	5.2			210		
TOCO 45	MWD091/MWD092	Top Soil Cover	33			<0.57	0.57	U	5.2			210		
TOCO 45-D	MWD091/MWD092	Top Soil Cover	NA			NA			NA			NA		
TOCO 46	MWD091/MWD092	Top Soil Cover	28			<0.57	0.57	U	4.8			120		
TOCO 48	MWD091/MWD092	Top Soil Cover	48			<0.57	0.57	U	5.7			80		
TOCO 49-avg	MWD091/MWD092	Top Soil Cover	35			<0.57	0.57	U	5.9			140		
TOCO 49	MWD091/MWD092	Top Soil Cover	34			<0.57	0.57	U	5.6			140		
TOCO 49-D	MWD091/MWD092	Top Soil Cover	35			<0.57	0.57	U	6.2			130		
TOCO 50	MWD091/MWD092	Top Soil Cover	19			<0.57	0.57	U	5.5			47		
TOCO 51-avg	MWD091/MWD092	Top Soil Cover	34			<0.57	0.57	U	5.5			84		
TOCO 51-R1	MWD091/MWD092	Top Soil Cover	35			<0.57	0.57	U	5.5			68		
TOCO 51-R2	MWD091/MWD092	Top Soil Cover	34			<0.57	0.57	U	5.4			73		
TOCO 51-R3	MWD091/MWD092	Top Soil Cover	32			<0.57	0.57	U	5.5			110		
TOCO 54-avg	MWD091/MWD092	Top Soil Cover	59			<0.57	0.57	U	5.8			240		
TOCO 54	MWD091/MWD092	Top Soil Cover	60			<0.57	0.57	U	4.9			240		
TOCO 54-D	MWD091/MWD092	Top Soil Cover	58			<0.57	0.57	U	6.7			240		
TOCO 55	MWD091/MWD092	Top Soil Cover	44			<0.57	0.57	U	4.3			260		
TOCO 56	MWD091/MWD092	Top Soil Cover	69			<0.57	0.57	U	5.7			120		
TOCO 57	MWD091/MWD092	Top Soil Cover	34			<0.57	0.57	U	5.1			81		
TOCO 58	MWD091/MWD092	Top Soil Cover	73			<0.57	0.57	U	5.5			77		
TOCO 59-avg	MWD091/MWD092	Top Soil Cover	41			<0.57	0.57	U	5.6			95		
TOCO 59-R1	MWD091/MWD092	Top Soil Cover	41			<0.57	0.57	U	6.5			94		
TOCO 59-R2	MWD091/MWD092	Top Soil Cover	39			<0.57	0.57	U	5.3			100		
TOCO 59-R3	MWD091/MWD092	Top Soil Cover	42			<0.57	0.57	U	4.9			90		
TOCO 60	MWD091/MWD092	Top Soil Cover	64			<0.57	0.57	U	5.8			83		
TOCO 61	MWD091/MWD092	Top Soil Cover	74			<0.57	0.57	U	6.5			140		
TOCO 62	MWD091/MWD092	Top Soil Cover	57			<0.57	0.57	U	5.7			83		
TOCO 63-avg	MWD091/MWD092	Top Soil Cover	51			<0.57	0.57	U	6.4			78		
TOCO 63	MWD091/MWD092	Top Soil Cover	51			<0.57	0.57	U	6.4			78		
TOCO 63-D	MWD091/MWD092	Top Soil Cover	NA			NA			NA			NA		
TOCO 64	MWD091/MWD092	Top Soil Cover	38			<0.57	0.57	U	4.9			81		
TOCO01	MWD091/MWD092	Top Soil Cover	47			<0.57	0.57	U	3.3			61		
TOCO02	MWD091/MWD092	Top Soil Cover	100			<0.57	0.57	U	5.0			100		
TOCO03	MWD091/MWD092	Top Soil Cover	63			<0.57	0.57	U	3.2			44		
TOCO04	MWD091/MWD092	Top Soil Cover	44			<0.57	0.57	U	3.4			64		
TOCO07	MWD091/MWD092	Top Soil Cover	46			<0.57	0.57	U	5.5			48		
TOST 01	NA	Top Soil Stockpile	50			<0.57	0.57	U	5.8			110		
TOST 02	NA	Top Soil Stockpile	22			<0.57	0.57	U	5.7			76		
TOST 03-avg	NA	Top Soil Stockpile	36			<0.57	0.57	U	9.9			62		
TOST 03	NA	Top Soil Stockpile	41			<0.57	0.57	U	8.7			62		
TOST 03-D	NA	Top Soil Stockpile	30			<0.57	0.57	U	11			61		

Table 4: Enoch Valley Mine - Upland Vegetation Analytical Historical Data (mg/kg, dw)[a] continued														
			Lead			Manganese			Molybdenum			Vanadium		
			2000			2000			2000			2000		
ID	Waste Dump	Soil Type	Summer	RL	Flag	Summer	RL	Flag	Summer	RL	Flag	Summer	RL	Flag
Bat Cave TOST	NA	Top Soil Stockpile	<2.7	2.7	U	97			<1.1	1.1	U	0.80		
BLSH02	NA	Black Shale	<2.7	2.7	U	140			2.2			1.2		
BLSH03	NA	Black Shale	<2.7	2.7	U	37			2.1			2.6		
BLSH01	NA	Black Shale	<2.7	2.7	U	17			7.4			6.0		
BRSH05-avg	MWD091	Brown Shale	<2.7	2.7	U	39			9.9			0.48<x<0.66	0.48<x<0.66	U
BRSH05-R1	MWD091	Brown Shale	<2.7	2.7	U	38			8.9			0.70		
BRSH05-R2	MWD091	Brown Shale	<2.7	2.7	U	40			11			<0.52	0.52	U
BRSH05-R3	MWD091	Brown Shale	<2.7	2.7	U	38			9.7			0.75		
BRSH06-avg	MWD091	Brown Shale	<2.7	2.7	U	120			4.2			1.1		
BRSH06	MWD091	Brown Shale	<2.7	2.7	U	120			4.2			1.1		
BRSH06-D	MWD091	Brown Shale	NA			NA			NA			NA		
BRSH07	MWD091	Brown Shale	<2.7	2.7	U	37			6.0			1.1		
BRSH08	MWD091	Brown Shale	<2.7	2.7	U	28			4.5			1.3		
BRSH09	MWD091	Brown Shale	<2.7	2.7	U	39			7.4			0.71		
BRSH01	MWD091	Brown Shale	<2.7	2.7	U	49			1.8			<0.52	0.52	U
BRSH02	MWD091	Brown Shale	3.2			59			4.7			1.8		
BRSH03-avg	MWD091	Brown Shale	<2.7	2.7	U	34			6.4			0.36<x<0.52	0.36<x<0.52	U
BRSH03	MWD091	Brown Shale	<2.7	2.7	U	33			6.2			<0.52	0.52	U
BRSH03-D	MWD091	Brown Shale	<2.7	2.7	U	34			NA			0.72		
BRSH04-avg	MWD091	Brown Shale	<2.7	2.7	U	36			19			1.2		
BRSH04-R1	MWD091	Brown Shale	<2.7	2.7	U	40			20			1.6		
BRSH04-R2	MWD091	Brown Shale	<2.7	2.7	U	34			17			1.0		
BRSH04-R3	MWD091	Brown Shale	<2.7	2.7	U	35			19			0.89		
CHSH01	MWD091	Cherty Shale	<2.7	2.7	U	11			15			0.98		
CHSH02	MWD091	Cherty Shale	<2.7	2.7	U	20			39			0.80		
CHSH03	MWD091	Cherty Shale	3.0			17			17			1.5		
CHSH04	MWD091	Cherty Shale	<2.7	2.7	U	11			15			0.89		
CHSH05	MWD091	Cherty Shale	<2.7	2.7	U	15			19			0.89		
CHSH06	MWD091	Cherty Shale	<2.7	2.7	U	11			14			1.0		
Middle West TOST	NA	Top Soil Stockpile	<2.7	2.7	U	100			1.7			2.0		
SRBG01	NA	Background	<2.7	2.7	U	42			<1.1	1.1	U	<0.52	0.52	U
SRBG02	NA	Background	<2.7	2.7	U	24			1.6			1.9		
SRBG03-avg	NA	Background	<2.7	2.7	U	75			<1.1	1.1	U	4.0		
SRBG03	NA	Background	<2.7	2.7	U	74			<1.1	1.1	U	3.5		
SRBG03-D	NA	Background	<2.7	2.7	U	75			<1.1	1.1	U	4.4		
SRBG04	NA	Background	<2.7	2.7	U	35			<1.1	1.1	U	0.90		
SRBG05	NA	Background	<2.7	2.7	U	30			<1.1	1.1	U	0.63		
SRBG06-avg	NA	Background	0.97<x<2.8	0.97<x<2.8	U	22			1.6<x<2.0	1.6<x<2.0	U	0.75		
SRBG06-R1	NA	Background	<2.7	2.7	U	22			<1.1	1.1	U	0.90		
SRBG06-R2	NA	Background	<2.7	2.7	U	23			2.7			0.66		
SRBG06-R3	NA	Background	2.9			21			2.1			0.70		
TOCO 11-avg	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	25			<1.1	1.1	U	6.4		
TOCO 11	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	25			<1.1	1.1	U	6.4		
TOCO 11-D	MWD091/MWD092	Top Soil Cover	NA			NA			NA			NA		
TOCO 12	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	73			2.7			6.9		
TOCO 13	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	73			<1.1	1.1	U	1.3		
TOCO 14	MWD091/MWD092	Top Soil Cover	3.3			73			9.9			2.0		
TOCO 15	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	48			9.2			1.1		
TOCO 16	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	80			1.2			1.9		
TOCO 17	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	75			2.2			0.93		
TOCO 18	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	51			1.8			1.3		
TOCO 19-avg	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	44			4.4			1.8		
TOCO 19	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	45			4.5			2.1		
TOCO 19-D	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	43			NA			1.4		
TOCO 20-avg	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	44			4.7			1.3		
TOCO 20	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	44			4.7			1.3		
TOCO 20-D	MWD091/MWD092	Top Soil Cover	NA			NA			NA			NA		
TOCO 21-avg	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	76			2.8			4.8		
TOCO 21	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	76			2.8			4.8		
TOCO 21-D	MWD091/MWD092	Top Soil Cover	NA			NA			NA			NA		
TOCO 22	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	43			4.8			0.77		
TOCO 23	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	66			5.3			3.1		
TOCO 24	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	100			3.6			<0.52	0.52	U
TOCO 25	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	53			5.4			0.77		
TOCO 26	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	120			3.0			1.3		
TOCO 27	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	24			2.7			1.3		
TOCO 28	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	100			2.8			0.7		
TOCO 30	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	150			7.4			1.6		
TOCO 31	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	60			5.1			3.1		
TOCO 32	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	79			8.5			2.4		
TOCO 33-avg	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	90			3.3			1.7		
TOCO 33-R1	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	94			3.3			1.5		
TOCO 33-R2	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	90			3.0			1.7		
TOCO 33-R3	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	86			3.6			1.9		
TOCO 34	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	43			<1.1	1.1	U	<0.52	0.52	U
TOCO 35	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	95			3.4			2.0		
TOCO 36	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	36			<1.1	1.1	U	2.0		
TOCO 37	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	180			2.1			0.64		
TOCO 38	MWD091/MWD092	Top Soil Cover	2.8			46			14			1.1		
TOCO 39	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	51			3.8			1.0		
TOCO 40	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	44			6.4			<0.52	0.52	U

Table 4: Enoch Valley Mine - Upland Vegetation Analytical Historical Data (mg/kg, dw)[a] continued

			Lead			Manganese			Molybdenum			Vanadium		
			2000			2000			2000			2000		
ID	Waste Dump	Soil Type	Summer	RL	Flag	Summer	RL	Flag	Summer	RL	Flag	Summer	RL	Flag
TOCO 41-avg	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	99			3.5			0.71		
TOCO 41	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	98			3.2			0.62		
TOCO 41-D	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	100			3.7			0.80		
TOCO 42	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	85			2.1			1.3		
TOCO 43-avg	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	92			4.4			0.90		
TOCO 43	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	92			4.4			0.90		
TOCO 43-D	MWD091/MWD092	Top Soil Cover	NA			NA			NA			NA		
TOCO 44	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	65			2.0			<0.52	0.52	U
TOCO 45-avg	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	21			4.3			1.4		
TOCO 45	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	21			4.3			1.4		
TOCO 45-D	MWD091/MWD092	Top Soil Cover	NA			NA			NA			NA		
TOCO 46	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	75			5.0			0.83		
TOCO 48	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	47			<1.1	1.1	U	0.79		
TOCO 49-avg	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	73			1.6			1.7		
TOCO 49	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	71			1.4			1.7		
TOCO 49-D	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	74			1.8			1.7		
TOCO 50	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	97			<1.1	1.1	U	<0.52	0.52	U
TOCO 51-avg	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	28			9.0			<0.52	0.52	
TOCO 51-R1	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	26			8.4			<0.52	0.52	U
TOCO 51-R2	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	25			8.8			<0.52	0.52	U
TOCO 51-R3	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	32			9.8			0.60		
TOCO 54-avg	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	140			6.1			2.4		
TOCO 54	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	140			5.2			2.5		
TOCO 54-D	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	130			7.0			2.2		
TOCO 55	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	94			<1.1	1.1	U	1.3		
TOCO 56	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	36			5.6			1.3		
TOCO 57	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	19			8.6			0.60		
TOCO 58	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	36			6.6			0.87		
TOCO 59-avg	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	130			1.4<x<1.8	1.4<x<1.8	U	<0.52	0.52	U
TOCO 59-R1	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	130			2.5			<0.52	0.52	U
TOCO 59-R2	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	140			<1.1	1.1	U	<0.52	0.52	U
TOCO 59-R3	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	130			1.8			<0.52	0.52	U
TOCO 60	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	39			3.9			1.4		
TOCO 61	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	34			3.8			4.6		
TOCO 62	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	86			2.8			0.55		
TOCO 63-avg	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	36			2.5			1.8		
TOCO 63	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	36			2.5			1.8		
TOCO 63-D	MWD091/MWD092	Top Soil Cover	NA			NA			NA			NA		
TOCO 64	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	50			3.4			<0.52	0.52	U
TOCO01	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	18			28			0.62		
TOCO02	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	39			3.7			0.96		
TOCO03	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	17			16			0.63		
TOCO04	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	22			8.7			0.55		
TOCO07	MWD091/MWD092	Top Soil Cover	<2.7	2.7	U	45			2.2			0.86		
TOST 01	NA	Top Soil Stockpile	<2.7	2.7	U	56			2.9			3.5		
TOST 02	NA	Top Soil Stockpile	<2.7	2.7	U	110			<1.1	1.1	U	<0.52	0.52	U
TOST 03-avg	NA	Top Soil Stockpile	<2.7	2.7	U	74			<1.1	1.1	U	0.60		
TOST 03	NA	Top Soil Stockpile	<2.7	2.7	U	74			<1.1	1.1	U	0.66		
TOST 03-D	NA	Top Soil Stockpile	<2.7	2.7	U	74			<1.1	1.1	U	0.54		

Notes:

These data were utilized in the MWH, 2001, *Enoch Valley Mine Waste Rock Characterization, Caribou County, Idaho.*

(a) - numerical results for non-detects were not provided by lab, so non-detects are censored at the reporting limit (RL)

Laboratory duplicates (D, D1) and field replicates (R1, R2, R3) are shown as unaveraged as well as averaged where appropriate.

Coordinates are in Geographic format (deg min decimal seconds) and use datum NAD27, except for 2001 data which uses WGS84.

Data qualifier definitions are:

(U) - The material was analyzed for, but was not detected above the level of the associated value. The associated value is the sample reporting limit.

(J) - The result is an estimated quantity.

(R) - The data are unusable.

(UJ) - The material was analyzed for, but was not detected above the level of the associated value. The result is an estimate and may be inaccurate or imprecise.

RL - Reporting Limit.

NA - Not Applicable.

NS - Not Sampled.

Table 5: Riparian Soil Analytical Data (mg/kg, dw)													
		Selenium						Cadmium					
		2001[c]			2004[p]			2001[c]			2004[p]		
Station Name	ID	Aug.	RL	Flag	Sept.	RL	Flag	Aug.	RL	Flag	Sept.	RL	Flag
Henry Mine South Pit Overburden Dump Seep	MDS016	NS			7.8			NS			16		J
Henry Mine South Pit Overburden Dump Limestone Drain	MDS022	NS			6.9			NS			3.0		J
Enoch Valley Mine West Dump Seep	MDS025	NS			50			NS			35		J
Enoch Valley Mine South Dump Seep	MDS026	NS			6.5			NS			16		J
Ballard Mine Pit #2 Upper Dump Seep	MDS030	NS			10			NS			7.0		J
Ballard Mine Pit #2 Lower Dump Seep South	MDS031	NS			3.5			NS			3.2		J
Ballard Mine Pit #2 Lower Dump Seep North	MDS032	NS			160			NS			7.0		J
Ballard Mine Goat Seep	MDS033	NS			24			NS			53		J
Ballard Mine Pit Well East	MMW001	NS			NS			NS			NS		
Ballard Mine Pit Well West	MMW002	NS			NS			NS			NS		
Henry Mine North Pit – South	MMW003	NS			NS			NS			NS		
Henry Mine North Pit – North	MMW004	NS			NS			NS			NS		
Enoch Valley Shop/Office Well	MPW019	NS			NS			NS			NS		
Henry Mine South Pit	MPW022	NS			NS			NS			NS		
Henry Mine Center Pit	MPW023	NS			NS			NS			NS		
Reservoir Delta at Blackfoot River	MRV011	NS			0.50			NS			1.1		J
Reservoir Delta at Little Blackfoot River	MRV016	NS			1.6			NS			1.1		J
Reservoir Delta at Meadow Creek	MRV017	NS			-0.19	0.50	U	NS			0.53		J
Enoch Valley Mine, Hedin Spring	MSG001	NS			0.70			NS			0.65		J
Henry Mine, Taylor Spring	MSG002	NS			0.025	0.50	U	NS			0.92		J
Ballard Mine, Garden Hose Spring	MSG003	NS			52			NS			10		J
Ballard Mine, Holmgren Spring	MSG004	NS			6.3			NS			11		J
Ballard Mine, Cattle Spring	MSG005-avg	NS			17			NS			1.3		J
	MSG005-R1	NA			16			NA			1.2		J
	MSG005-R2	NA			17			NA			1.4		J
	MSG005-R3	NA			17			NA			1.4		J
Ballard Mine Southeast Spring	MSG006	NS			570			NS			1.4		J
Ballard Mine Dredge Pond	MSP010	NS			53			NS			23		J
Ballard Mine Upper Elk Pond	MSP011	NS			48			NS			110		J
Ballard Mine Lower Elk Pond	MSP012	NS			38			NS			130		J
Ballard Mine Northeast Pond	MSP013	NS			24			NS			30		J
Henry Mine Henry Pond	MSP014	NS			12			NS			5.8		J
Henry Mine Smith Pond	MSP015	NS			24			NS			5.7		J
Henry Mine Center Henry Pond	MSP016	NS			45			NS			21		J
Enoch Valley Mine South Pond	MSP017	NS			50			NS			21		J
Enoch Valley Mine Keyhole Pond	MSP018	NS			70			NS			100		J
Enoch Valley Mine Bat Cave Pond	MSP019	NS			9.8			NS			41		J
Enoch Valley Mine West Pond	MSP020	NS			18			NS			24		J
Enoch Valley Mine Stock Pond	MSP021	NS			42			NS			46		J
Enoch Valley Mine Tipple Pond	MSP022	NS			6.7			NS			7.1		J
Enoch Valley Mine Haul Road Pond	MSP023	NS			25			NS			30		J
Enoch Valley Mine Shop Pond	MSP031	NS			24			NS			13		J
Henry Mine South Pit Pond	MSP055	NS			28			NS			67		J
Ballard Mine Pit #4 Stock Pond	MSP059	NS			39			NS			28		J
Ballard Mine Pit #6 Pond	MSP062	NS			21			NS			130		J
Blackfoot River, below Ballard Creek	MST019	NS			1.5			NS			3.7		J

Table 5: Riparian Soil Analytical Data (mg/kg, dw) continued													
		Selenium						Cadmium					
		2001[c]			2004 [p]			2001[c]			2004 [p]		
Station Name	ID	Aug.	RL	Flag	Sept.	RL	Flag	Aug.	RL	Flag	Sept.	RL	Flag
Blackfoot River, below State Land Creek	MST020-avg	NS			1.7			NS			1.1		J
	MST020-R1	NA			1.8			NA			1.2		J
	MST020-R2	NA			1.6			NA			1.1		J
	MST020-R3	NA			1.7			NA			1.1		J
Blackfoot River, below Trail Creek	MST021	NS			1.2			NS			1.6		J
Blackfoot River, below Wooley Valley Creek	MST022-avg	NS			0.93			NS			1.9		J
	MST022-R1	NA			1.0			NA			2.0		J
	MST022-R2	NA			0.90			NA			1.8		J
	MST022-R3	NA			0.90			NA			1.7		J
Blackfoot River, below Dry Valley Creek	MST023	NS			1.1			NS			0.77		J
Blackfoot River, above Dry Valley Creek	MST024	NS			0.90			NS			0.72		J
Blackfoot River, below Wooley Range Ridge Creek	MST025-avg	NS			0.93			NS			1.0		J
	MST025-R1	NA			1.0			NA			1.1		J
	MST025-R2	NA			0.90			NA			0.99		J
	MST025-R3	NA			0.90			NA			0.96		J
Blackfoot River, above Wooley Range Ridge Creek	MST026-avg	2.1			0.80			0.93		R	2.4		J
	MST026	NA			0.80			NA			2.4		J
	MST026-P1	1.5			NA			0.97		R	NA		
	MST026-P2	1.0			NA			1.0		R	NA		
	MST026-P3	3.7			NA			0.82		R	NA		
Blackfoot River, below Angus Creek	MST027	NS			0.30	0.50	U	NS			0.87		J
Blackfoot River, above Diamond Creek Rd.	MST028	NS			0.20	0.50	U	NS			0.56		J
Blackfoot River, above Spring Creek	MST029	NS			-0.030	0.50	U	NS			0.90		J
Little Blackfoot River, below Long Valley Creek	MST043	NS			1.1			NS			0.83		J
Little Blackfoot River, immediately below Henry Mine	MST044	NS			5.3			NS			2.8		J
Little Blackfoot River, above Henry Creek	MST045	NS			1.5			NS			0.92		J
Little Blackfoot River, below Lone Pine Creek	MST046	NS			1.1			NS			1.2		J
Little Blackfoot River, above Lone Pine Creek	MST047	NS			1.1			NS			1.3		J
Little Blackfoot River, below Reese Creek	MST048	NS			0.29	0.50	U	NS			1.3		J
Little Blackfoot River, above Reese Creek	MST049-avg	1.2			0.34	0.50	U	0.97		R	1.4		J
	MST049	NA			0.34	0.50	U	NA			1.4		J
	MST049-P1	1.1			NA			1.3		R	NA		
	MST049-P2	1.3			NA			1.1		R	NA		
	MST049-P3	1.2			NA			0.44		R	NA		
Long Valley Creek, below Ballard Mine, (ponded area)	MST050	NS			0.37	0.50	U	NS			1.3		J
East Fork Long Valley Creek, below Henry Mine	MST051-avg	NS			1.8			NS			3.8		J
	MST051-R1	NA			1.8			NA			3.7		J
	MST051-R2	NA			1.8			NA			4.2		J
	MST051-R3	NA			1.9			NA			3.6		J
Henry Creek, above Little Blackfoot River	MST052	NS			3.4			NS			6.6		J

Table 5: Riparian Soil Analytical Data (mg/kg, dw) continued													
		Selenium						Cadmium					
		2001[c]			2004[p]			2001[c]			2004[p]		
Station Name	ID	Aug.	RL	Flag	Sept.	RL	Flag	Aug.	RL	Flag	Sept.	RL	Flag
Lone Pine Creek, above Little Blackfoot River	MST053-avg	NS			0.93			NS			1.2		J
	MST053-R1	NA			1.0			NA			1.2		J
	MST053-R2	NA			0.90			NA			1.2		J
	MST053-R3	NA			0.90			NA			1.2		J
Lone Pine Creek, above Spring-Fed Creek	MST054	NS			1.4			NS			1.7		J
Lone Pine Creek, below Strip Mine Creek	MST055	NS			0.39	0.50	U	NS			1.5		J
Lone Pine Creek, above Strip Mine Creek	MST056	NS			1.0			NS			1.7		J
Lone Pine Creek, above Lone Pine Creek	MST057	NS			3.1			NS			5.7		J
Lone Pine Creek, above West Fork Lone Pine Creek	MST058	NS			1.3			NS			2.5		J
West Rasmussen. Ridge Creek #1, above Lone Pine Creek	MST059-avg	NS			0.14	0.50	U	NS			3.0		J
	MST059-R1	NA			0.12	0.50	U	NA			2.9		J
	MST059-R2	NA			0.28	0.50	U	NA			3.2		J
	MST059-R3	NA			0.015	0.50	U	NA			3.0		J
West Rasmussen. Ridge Creek #2, above Lone Pine Creek	MST060	NS			0.70			NS			5.9		J
West Rasmussen. Ridge Creek #3, above Lone Pine Creek	MST061-avg	NS			2.2			NS			13		J
	MST061-R1	NA			2.3			NA			13		J
	MST061-R2	NA			2.1			NA			13		J
	MST061-R3	NA			2.3			NA			13		J
Strip Mine Creek, above Lone Pine Creek	MST062	NS			-0.010	0.50	U	NS			1.2		J
Strip Mine Creek, below Henry Mine	MST063	NS			4.3			NS			4.6		J
West Fork Lone Pine Creek, above tributary	MST064	NS			1.7			NS			6.6		J
Ballard Creek, above Blackfoot River	MST066	NS			9.8			NS			2.9		J
Ballard Creek headwaters	MST067	NS			39			NS			24		J
West Fork Ballard Creek Headwaters	MST068	NS			25			NS			35		J
Short Creek, below Ballard Mine	MST069	NS			2.8			NS			4.2		J
Wooley Valley Creek, above Blackfoot River	MST088	NS			0.29	0.50	U	NS			2.6		J
Wooley Valley Creek, below North Fork Wooley Valley Creek	MST089	NS			6.6			NS			4.7		J
Wooley Valley Creek, above North Fork Wooley Valley Creek	MST090	NS			0.40	0.50	U	NS			1.7		J
North Fork Wooley Valley Creek, above Wooley Valley Creek	MST092-avg	NS			19			NS			6.0		J
	MST092-R1	NA			19			NA			6.1		J
	MST092-R2	NA			18			NA			6.0		J
	MST092-R3	NA			19			NA			6.0		J
North Fork Wooley Valley Creek, above Ballard Mine	MST093	NS			0.50			NS			2.7		J
Spring-fed tributary #1 of North Fork Wooley Valley Creek, below Ballard Mine	MST094	NS			0.70			NS			1.4		J
Spring-fed tributary #2of North Fork Wooley Valley Creek, below Ballard Mine	MST095	NS			15			NS			16		J

Table 5: Riparian Soil Analytical Data (mg/kg, dw) continued													
		Selenium						Cadmium					
		2001[c]			2004 [p]			2001[c]			2004 [p]		
Station Name	ID	Aug.	RL	Flag	Sept.	RL	Flag	Aug.	RL	Flag	Sept.	RL	Flag
Tributary of North Fork Wooley , below Ballard Mine	MST096	NS			1.3			NS			0.44		J
Caldwell Creek, below Phosphoria Formation outcrop	MST101	NS			0.50			NS			1.8		J
Angus Creek, above Blackfoot River	MST126	NS			0.38	0.50	U	NS			2.4		J
Angus Creek, below No Name Creek	MST127	NS			0.22	0.50	U	NS			2.7		J
Angus Creek, above Rasmussen Creek	MST128	NS			0.40	0.50	U	NS			1.4		J
Angus Creek, below Wooley Valley Mine	MST129	NS			2.4			NS			3.0		J
Angus Creek, below Upper Angus Creek Reservoir	MST130-avg	1.8			2.3			3.3		R	5.5		J
below Upper Angus Creek Reservoir	MST130	NA			2.3			NA			5.5		J
	MST130-P1	1.3			NA			4.1		R	NA		
	MST130-P2	2.5			NA			3.1		R	NA		
	MST130-P3	1.7			NA			2.6		R	NA		
Rassmussen Creek, above Angus Creek	MST131	NS			0.47	0.50	U	NS			2.0		J
	MST132-avg	NS			0.45	0.50	U	NS			3.3		J
	MST132-R1	NA			0.46	0.50	U	NA			3.3		J
	MST132-R2	NA			0.49	0.50	U	NA			3.4		J
	MST132-R3	NA			0.41	0.50	U	NA			3.3		J
Rasmussen Creek, below Enoch Valley Mine	MST133	NS			0.80			NS			2.1		J
Rasmussen Creek, below West Pond Creek	MST134	NS			3.7			NS			2.8		J
Rasmussen Creek, above West Pond Creek	MST135	NS			2.5			NS			2.7		J
Rasmussen Creek headwaters, near Enoch Valley Mine Shop Pond	MST136	NS			1.3			NS			2.6		J
East Fork Rasmussen Creek, above Rasmussen Creek	MST143	NS			0.18	0.50	U	NS			3.4		J
West Pond Creek headwaters, below West Pond	MST144	NS			6.1			NS			8.7		J
East Fork Lone Pine Creek, below Wooley Valley Mine	MST226	NS			1.4			NS			2.4		J
Blackfoot River, below Spring Creek	MST229	NS			1.0			NS			1.3		J
Blackfoot River, above State Land Creek	MST230	NS			1.9			NS			0.91		J
Blackfoot River, below Woodall Mountain Creek	MST231	NS			0.37	0.50	U	NS			1.1		J
Blackfoot River, above Blackfoot Reservoir	MST232-avg	NS			0.36	0.50	U	NS			2.0		J
	MST232-R1	NA			0.32	0.50	U	NA			1.9		J
	MST232-R2	NA			0.45	0.50	U	NA			2.1		J
	MST232-R3	NA			0.31	0.50	U	NA			2.0		J
Little Blackfoot River, above Blackfoot Reservoir	MST234	NS			0.33	0.50	U	NS			1.0		J
Meadow Creek, above Blackfoot Reservoir	MST235-avg	0.51			-0.13	0.50	U	0.52		R	0.60		J
	MST235	NA			-0.13	0.50	U	NA			0.60		J
	MST235-P1	0.36			NA			0.42		R	NA		
	MST235-P2	0.41			NA			0.65		R	NA		
	MST235-P3	0.77			NA			0.50		R	NA		
Stewart Creek, above Diamond Creek	MST236	NS			0.70			NS			4.4		J

Table 5: Riparian Soil Analytical Data (mg/kg, dw) continued													
		Selenium						Cadmium					
		2001[c]			2004 [p]			2001[c]			2004 [p]		
Station Name	ID	Aug.	RL	Flag	Sept.	RL	Flag	Aug.	RL	Flag	Sept.	RL	Flag
Timber Creek, above Diamond Creek	MST237-avg	1.5			0.70			0.87		R	1.4		J
	MST237	NA			0.70			NA			1.4		J
	MST237-P1	1.0			NA			0.82		R	NA		
	MST237-P2	2.3			NA			0.91		R	NA		
	MST237-P3	1.3			NA			0.89		R	NA		
Little Blackfoot River, upstream of Henry cutoff road	MST254	NS			-0.020	0.50	U	NS			1.2		J
East Fork Rasmussen Creek headwaters	MST269	NS			14			NS			26		J
Long Valley Creek, downstream of station MST050	MST270	NS			1.6			NS			3.2		J
Long Valley Creek, below East Fork Long Valley Creek	MST271	NS			0.30	0.50	U	NS			1.8		J
Wooley Valley Creek, above Loadout Creek at road	MST272	NS			2.5			NS			5.6		J
Wooley Valley Creek, above ponding and below MST089	MST273	NS			6.9			NS			3.6		J
West Fork Rasmussen Creek, above Rasmussen Creek	MST274	NS			1.0			NS			1.0		J
North Fork Lone Pine Creek, Northeast and above East Fork Lone Pine Creek	MST275	NS			-0.32	0.50	U	NS			1.0		J
Tributary to West Fork Lone Pine Creek, above West Fork Lone Pine Creek	MST276	NS			1.5			NS			7.7		J
Spring-fed tributary, above Lone Pine Creek	MST277	NS			0.70			NS			3.4		J

Table 5: Riparian Soil Analytical Data (mg/kg, dw) continued																
		Copper						Chromium						Molybdenum		
		2001[c]			2004 [p]			2001[c]			2004 [p]			2004 [p]		
Station Name	ID	Aug.	RL	Flag	Sept.	RL	Flag	Aug.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag
Henry Mine South Pit Overburden Dump Seep	MDS016	NS			46		J	NS			310		J	7.5		J
Henry Mine South Pit Overburden Dump Limestone Drain	MDS022	NS			14		J	NS			25		J	1.3	1.4	UJ
Enoch Valley Mine West Dump Seep	MDS025	NS			1300		J	NS			770		J	14		J
Enoch Valley Mine South Dump Seep	MDS026	NS			72		J	NS			310		J	3.7		J
Ballard Mine Pit #2 Upper Dump Seep	MDS030	NS			40		J	NS			98		J	3.4		J
Ballard Mine Pit #2 Lower Dump Seep South	MDS031	NS			25		J	NS			63		J	2.3		J
Ballard Mine Pit #2 Lower Dump Seep North	MDS032	NS			30		J	NS			78		J	4.0		J
Ballard Mine Goat Seep	MDS033	NS			270		J	NS			300		J	47		J
Ballard Mine Pit Well East	MMW001	NS			NS			NS			NS		J	NS		
Ballard Mine Pit Well West	MMW002	NS			NS			NS			NS		J	NS		
Henry Mine North Pit – South	MMW003	NS			NS			NS			NS			NS		
Henry Mine North Pit – North	MMW004	NS			NS			NS			NS			NS		
Enoch Valley Shop/Office Well	MPW019	NS			NS			NS			NS			NS		
Henry Mine South Pit	MPW022	NS			NS			NS			NS			NS		
Henry Mine Center Pit	MPW023	NS			NS			NS			NS			NS		
Reservoir Delta at Blackfoot River	MRV011	NS			5.0		J	NS			22		J	0.23	0.30	UJ
Reservoir Delta at Little Blackfoot River	MRV016	NS			6.0		J	NS			20		J	0.30	1.4	UJ
Reservoir Delta at Meadow Creek	MRV017	NS			5.3		J	NS			14		J	0.15	1.4	UJ
Enoch Valley Mine, Hedin Spring	MSG001	NS			13		J	NS			19		J	0.72	1.4	UJ
Henry Mine, Taylor Spring	MSG002	NS			22		J	NS			30		J	0.56	1.4	UJ
Ballard Mine, Garden Hose Spring	MSG003	NS			31		J	NS			200		J	3.5		J
Ballard Mine, Holmgren Spring	MSG004	NS			38		J	NS			130		J	4.3		J
Ballard Mine, Cattle Spring	MSG005-avg	NS			15		J	NS			19		J	0.80	1.4	UJ
	MSG005-R1	NA			14		J	NA			18		J	0.77	1.4	UJ
	MSG005-R2	NA			16		J	NA			20		J	0.84	1.4	UJ
	MSG005-R3	NA			15		J	NA			19		J	0.79	1.4	UJ
Ballard Mine Southeast Spring	MSG006	NS			7.0		J	NS			16		J	1.2	1.4	UJ
Ballard Mine Dredge Pond	MSP010	NS			73		J	NS			2800		J	31.0		J
Ballard Mine Upper Elk Pond	MSP011	NS			130		J	NS			790		J	49		J
Ballard Mine Lower Elk Pond	MSP012	NS			130		J	NS			910		J	42		J
Ballard Mine Northeast Pond	MSP013	NS			70		J	NS			374		J	14		J
Henry Mine Henry Pond	MSP014	NS			23		J	NS			48		J	3.3		J
Henry Mine Smith Pond	MSP015	NS			22		J	NS			46		J	1.4	1.4	UJ
Henry Mine Center Henry Pond	MSP016	NS			27		J	NS			160		J	5.9		J
Enoch Valley Mine South Pond	MSP017	NS			34		J	NS			170		J	4.0		J
Enoch Valley Mine Keyhole Pond	MSP018	NS			52		J	NS			240		J	16		J
Enoch Valley Mine Bat Cave Pond	MSP019	NS			41		J	NS			270		J	4.0		J
Enoch Valley Mine West Pond	MSP020	NS			29		J	NS			200		J	2.6		J
Enoch Valley Mine Stock Pond	MSP021	NS			59		J	NS			420		J	5.3		J
Enoch Valley Mine Tipple Pond	MSP022	NS			19		J	NS			67		J	2.7		J
Enoch Valley Mine Haul Road Pond	MSP023	NS			51		J	NS			360		J	10		J
Enoch Valley Mine Shop Pond	MSP031	NS			59		J	NS			350		J	3.7		J
Henry Mine South Pit Pond	MSP055	NS			56		J	NS			470		J	15		J
Ballard Mine Pit #4 Stock Pond	MSP059	NS			110		J	NS			460		J	25		J
Ballard Mine Pit #6 Pond	MSP062	NS			120		J	NS			1000		J	43		J
Blackfoot River, below Ballard Creek	MST019	NS			14		J	NS			31		J	0.70	1.4	UJ

Table 5: Riparian Soil Analytical Data (mg/kg, dw) continued																
		Copper						Chromium						Molybdenum		
		2001[c]			2004 [p]			2001[c]			2004 [p]			2004 [p]		
Station Name	ID	Aug.	RL	Flag	Sept.	RL	Flag	Aug.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag
Blackfoot River, below State Land Creek	MST020-avg	NS			11		J	NS			28		J	0.21	1.4	UJ
	MST020-R1	NA			11		J	NA			29		J	0.21	1.4	UJ
	MST020-R2	NA			10		J	NA			27		J	0.21	1.4	UJ
	MST020-R3	NA			11		J	NA			27		J	0.21	1.4	UJ
Blackfoot River, below Trail Creek	MST021	NS			14		J	NS			32		J	0.26	0.30	UJ
Blackfoot River, below Wooley Valley Creek	MST022-avg	NS			9.3		J	NS			25		J	0.48	1.4	UJ
	MST022-R1	NA			9.3		J	NA			25		J	0.50	1.4	UJ
	MST022-R2	NA			NA			NA			NA			0.43	1.4	UJ
	MST022-R3	NA			NA			NA			NA			0.51	1.4	UJ
Blackfoot River, below Dry Valley Creek	MST023	NS			5.1		J	NS			15		J	0.20	1.4	UJ
Blackfoot River, above Dry Valley Creek	MST024	NS			5.3		J	NS			15		J	0.26	1.4	UJ
Blackfoot River, below Wooley Range Ridge Creek	MST025-avg	NS			7.0		J	NS			17		J	0.30	1.4	UJ
	MST025-R1	NA			6.3		J	NA			16		J	0.30	1.4	UJ
	MST025-R2	NA			7.0		J	NA			17		J	0.29	1.4	UJ
	MST025-R3	NA			7.6		J	NA			17		J	0.31	1.4	UJ
Blackfoot River, above Wooley Range Ridge Creek	MST026-avg	7.5		J	8.8		J	21		J	28		J	0.70	1.4	UJ
	MST026	NA			8.8		J	NA			28		J	0.70	1.4	UJ
	MST026-P1	6.2		J	NA			26		J	NA			NA		
	MST026-P2	9.2		J	NA			21		J	NA			NA		
	MST026-P3	7.1		J	NA			16		J	NA			NA		
Blackfoot River, below Angus Creek	MST027	NS			8.9		J	NS			18		J	0.25	1.4	UJ
Blackfoot River, above Diamond Creek Rd.	MST028	NS			5.2		J	NS			13	14	UJ	0.12	1.4	UJ
Blackfoot River, above Spring Creek	MST029	NS			7.9		J	NS			17		J	0.20	1.4	UJ
Little Blackfoot River, below Long Valley Creek	MST043	NS			8.5		J	NS			25		J	0.30	1.4	UJ
Little Blackfoot River, immediately below Henry Mine	MST044	NS			20		J	NS			46		J	1.2	1.4	UJ
Little Blackfoot River, above Henry Creek	MST045	NS			11		J	NS			28		J	0.36	1.4	UJ
Little Blackfoot River, below Lone Pine Creek	MST046	NS			16		J	NS			22		J	0.35	1.4	UJ
Little Blackfoot River, above Lone Pine Creek	MST047	NS			17		J	NS			21		J	0.43	1.4	UJ
Little Blackfoot River, below Reese Creek	MST048	NS			15		J	NS			25		J	0.28	1.4	UJ
Little Blackfoot River, above Reese Creek	MST049-avg	18		J	15		J	56		J	25		J	0.45	1.4	UJ
	MST049	NA			15		J	NA			25		J	0.45	1.4	UJ
	MST049-P1	18		J	NA			65		J	NA			NA		
	MST049-P2	17		J	NA			50		J	NA			NA		
	MST049-P3	19		J	NA			53		J	NA			NA		
Long Valley Creek, below Ballard Mine, (ponded area)	MST050	NS			9.7		J	NS			19		J	0.90	1.4	UJ
East Fork Long Valley Creek, below Henry Mine	MST051-avg	NS			21		J	NS			41		J	1.8		J
	MST051-R1	NA			21		J	NA			40		J	1.6		J
	MST051-R2	NA			21		J	NA			44		J	2.0		J
	MST051-R3	NA			20		J	NA			38		J	1.7		J
Henry Creek, above Little Blackfoot River	MST052	NS			27		J	NS			75		J	2.9		J

Table 5: Riparian Soil Analytical Data (mg/kg, dw) continued																
		Copper						Chromium						Molybdenum		
		2001[c]			2004 [p]			2001[c]			2004 [p]			2004 [p]		
Station Name	ID	Aug.	RL	Flag	Sept.	RL	Flag	Aug.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag
Lone Pine Creek, above Little Blackfoot River	MST053-avg	NS			16		J	NS			22		J	0.29	1.4	UJ
	MST053-R1	NA			16		J	NA			23		J	0.30	1.4	UJ
	MST053-R2	NA			16		J	NA			21		J	0.27	1.4	UJ
	MST053-R3	NA			16		J	NA			22		J	0.29	1.4	UJ
Lone Pine Creek, above Spring-Fed Creek	MST054	NS			15		J	NS			25		J	0.34	1.4	UJ
Lone Pine Creek, below Strip Mine Creek	MST055	NS			16		J	NS			26		J	0.33	1.4	UJ
Lone Pine Creek, above Strip Mine Creek	MST056	NS			21		J	NS			29		J	0.38	1.4	UJ
Lone Pine Creek, above Lone Pine Creek	MST057	NS			17		J	NS			32		J	0.35	1.4	UJ
Lone Pine Creek, above West Fork Lone Pine Creek	MST058	NS			25		J	NS			31		J	1.4	1.4	UJ
West Rasmussen. Ridge Creek #1, above Lone Pine Creek	MST059-avg	NS			17		J	NS			33		J	0.95	1.4	UJ
	MST059-R1	NA			19		J	NA			36		J	0.92	1.4	UJ
	MST059-R2	NA			18		J	NA			35		J	1.0	1.4	UJ
	MST059-R3	NA			14		J	NA			26		J	0.94	1.4	UJ
West Rasmussen. Ridge Creek #2, above Lone Pine Creek	MST060	NS			18		J	NS			29		J	0.85	1.4	UJ
West Rasmussen. Ridge Creek #3, above Lone Pine Creek	MST061-avg	NS			24		J	NS			75		J	3.0		J
	MST061-R1	NA			24		J	NA			78		J	2.9		J
	MST061-R2	NA			25		J	NA			70		J	3.0		J
	MST061-R3	NA			24		J	NA			77		J	3.0		J
Strip Mine Creek, above Lone Pine Creek	MST062	NS			14		J	NS			26		J	0.28	1.4	UJ
Strip Mine Creek, below Henry Mine	MST063	NS			26		J	NS			47		J	2.2		J
West Fork Lone Pine Creek, above tributary	MST064	NS			22		J	NS			51		J	0.59	1.4	UJ
Ballard Creek, above Blackfoot River	MST066	NS			24		J	NS			25		J	0.90	1.4	UJ
Ballard Creek headwaters	MST067	NS			40		J	NS			160		J	9.0		J
West Fork Ballard Creek Headwaters	MST068	NS			39		J	NS			260		J	12		J
Short Creek, below Ballard Mine	MST069	NS			21		J	NS			39		J	1.7		J
Wooley Valley Creek, above Blackfoot River	MST088	NS			16		J	NS			33		J	0.82	1.4	UJ
Wooley Valley Creek, below North Fork Wooley Valley Creek	MST089	NS			22		J	NS			39		J	0.77	1.4	UJ
Wooley Valley Creek, above North Fork Wooley Valley Creek	MST090	NS			16		J	NS			21		J	0.52	1.4	UJ
North Fork Wooley Valley Creek, above Wooley Valley Creek	MST092-avg	NS			25		J	NS			70		J	1.1	1.4	UJ
	MST092-R1	NA			25		J	NA			72		J	1.1	1.4	UJ
	MST092-R2	NA			26		J	NA			68		J	1.2	1.4	UJ
	MST092-R3	NA			25		J	NA			70		J	1.1	1.4	UJ
North Fork Wooley Valley Creek, above Ballard Mine	MST093	NS			21		J	NS			23		J	0.58	1.4	UJ
Spring-fed tributary #1 of North Fork Wooley Valley Creek, below Ballard Mine	MST094	NS			20		J	NS			37		J	0.60	1.4	UJ
Spring-fed tributary #2of North Fork Wooley Valley Creek, below Ballard Mine	MST095	NS			42		J	NS			170		J	6.1		J

Table 5: Riparian Soil Analytical Data (mg/kg, dw) continued																
		Copper						Chromium						Molybdenum		
		2001[c]			2004 [p]			2001[c]			2004 [p]			2004 [p]		
Station Name	ID	Aug.	RL	Flag	Sept.	RL	Flag	Aug.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag
Tributary of North Fork Wooley , below Ballard Mine	MST096	NS			10		J	NS			17		J	0.60	1.4	UJ
Caldwell Creek, below Phosphoria Formation outcrop	MST101	NS			19		J	NS			26		J	0.47	1.4	UJ
Angus Creek, above Blackfoot River	MST126	NS			13		J	NS			34		J	0.62	1.4	UJ
Angus Creek, below No Name Creek	MST127	NS			13		J	NS			32		J	0.33	1.4	UJ
Angus Creek, above Rasmussen Creek	MST128	NS			16		J	NS			31		J	0.36	1.4	UJ
Angus Creek, below Wooley Valley Mine	MST129	NS			21		J	NS			41		J	0.71	1.4	UJ
Angus Creek, below Upper Angus Creek Reservoir	MST130-avg	28		J	22		J	70		J	51		J	1.6		J
	MST130	NA			22		J	NA			51		J	1.6		J
	MST130-P1	31		J	NA			86		J	NA			NA		
	MST130-P2	29		J	NA			63		J	NA			NA		
	MST130-P3	24		J	NA			62		J	NA			NA		
Rassmussen Creek, above Angus Creek	MST131	NS			15		J	NS			31		J	0.52	1.4	UJ
Angus Creek, below Rasmussen Creek	MST132-avg	NS			17		J	NS			38		J	0.67	1.4	UJ
	MST132-R1	NA			17		J	NA			38		J	0.63	1.4	UJ
	MST132-R2	NA			17		J	NA			37		J	0.70	1.4	UJ
	MST132-R3	NA			17		J	NA			39		J	0.67	1.4	UJ
Rasmussen Creek, below Enoch Valley Mine	MST133	NS			18		J	NS			32		J	0.63	1.4	UJ
Rasmussen Creek, below West Pond Creek	MST134	NS			16		J	NS			32		J	0.64	1.4	UJ
Rasmussen Creek, above West Pond Creek	MST135	NS			17		J	NS			34		J	0.83	1.4	UJ
Rasmussen Creek headwaters, near Enoch Valley Mine Shop Pond	MST136	NS			22		J	NS			42		J	1.0	1.4	UJ
East Fork Rasmussen Creek, above Rasmussen Creek	MST143	NS			14		J	NS			40		J	0.70	1.4	UJ
West Pond Creek headwaters, below West Pond	MST144	NS			27		J	NS			79		J	2.4		J
East Fork Lone Pine Creek, below Wooley Valley Mine	MST226	NS			17		J	NS			30		J	0.87	1.4	UJ
Blackfoot River, below Spring Creek	MST229	NS			10		J	NS			22		J	0.30	1.4	UJ
Blackfoot River, above State Land Creek	MST230	NS			7.7		J	NS			20		J	0.19	1.4	UJ
Blackfoot River, below Woodall Mountain Creek	MST231	NS			7.5		J	NS			19		J	0.22	0.30	UJ
Blackfoot River, above Blackfoot Reservoir	MST232-avg	NS			8.4		J	NS			30		J	0.50	1.4	UJ
	MST232-R1	NA			8.0		J	NA			28		J	0.50	1.4	UJ
	MST232-R2	NA			9.2		J	NA			33		J	0.60	1.4	UJ
	MST232-R3	NA			7.9		J	NA			28		J	0.40	1.4	UJ
Little Blackfoot River, above Blackfoot Reservoir	MST234	NS			8.2		J	NS			26		J	0.33	1.4	UJ
Meadow Creek, above Blackfoot Reservoir	MST235-avg	11		J	11		J	41		J	22		J	0.17	1.4	UJ
	MST235	NA			11		J	NA			22		J	0.17	1.4	UJ
	MST235-P1	6.8		J	NA			30		J	NA			NA		
	MST235-P2	13		J	NA			51		J	NA			NA		
	MST235-P3	12		J	NA			43		J	NA			NA		

Table 5: Riparian Soil Analytical Data (mg/kg, dw) continued																
		Copper						Chromium						Molybdenum		
		2001[c]			2004 [p]			2001[c]			2004 [p]			2004 [p]		
Station Name	ID	Aug.	RL	Flag	Sept.	RL	Flag	Aug.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag
Stewart Creek, above Diamond Creek	MST236	NS			19		J	NS			43		J	1.7		J
Timber Creek, above Diamond Creek	MST237-avg	19		J	16		J	40		J	27		J	0.40	1.4	UJ
	MST237	NA			16		J	NA			27		J	0.40	1.4	UJ
	MST237-P1	20		J	NA			40		J	NA			NA		
	MST237-P2	19		J	NA			41		J	NA			NA		
	MST237-P3	19		J	NA			39		J	NA			NA		
Little Blackfoot River, upstream of Henry cutoff road	MST254	NS			12		J	NS			21		J	0.43	1.4	UJ
East Fork Rasmussen Creek headwaters	MST269	NS			51		J	NS			300		J	7.3		J
Long Valley Creek, downstream of station MST050	MST270	NS			27		J	NS			42		J	0.60	1.4	UJ
Long Valley Creek, below East Fork Long Valley Creek	MST271	NS			21		J	NS			34		J	0.33	1.4	UJ
Wooley Valley Creek, above Loadout Creek at road	MST272	NS			23		J	NS			61		J	1.3	1.4	UJ
Wooley Valley Creek, above ponding and below MST089	MST273	NS			20		J	NS			34		J	0.70	1.4	UJ
West Fork Rasmussen Creek, above Rasmussen Creek	MST274	NS			13		J	NS			20		J	0.63	1.4	UJ
North Fork Lone Pine Creek, Northeast and above East Fork Lone Pine Creek	MST275	NS			15		J	NS			25		J	0.43	1.4	UJ
Tributary to West Fork Lone Pine Creek, above West Fork Lone Pine Creek	MST276	NS			20		J	NS			58		J	1.8		J
Spring-fed tributary, above Lone Pine Creek	MST277	NS			29		J	NS			40		J	0.43	1.4	UJ

Table 5: Riparian Soil Analytical Data (mg/kg, dw) continued																			
		Nickel						Vanadium						Zinc					
		2001[c]			2004 [p]			2001[c]			2004 [p]			2001[c]			2004 [p]		
Station Name	ID	Aug.	RL	Flag	Sept.	RL	Flag	Aug.	RL	Flag	Sept.	RL	Flag	Aug.	RL	Flag	Sept.	RL	Flag
Henry Mine South Pit Overburden Dump Seep	MDS016	NS			150			NS			150		J	NS			550		
Henry Mine South Pit Overburden Dump Limestone Drain	MDS022	NS			63			NS			48		J	NS			140		
Enoch Valley Mine West Dump Seep	MDS025	NS			1800			NS			230		J	NS			6700		
Enoch Valley Mine South Dump Seep	MDS026	NS			52			NS			120		J	NS			180		
Ballard Mine Pit #2 Upper Dump Seep	MDS030	NS			53			NS			93		J	NS			250		
Ballard Mine Pit #2 Lower Dump Seep South	MDS031	NS			55			NS			69		J	NS			180		
Ballard Mine Pit #2 Lower Dump Seep North	MDS032	NS			68			NS			66		J	NS			280		
Ballard Mine Goat Seep	MDS033	NS			770			NS			120		J	NS			2600		
Ballard Mine Pit Well East	MMW001	NS			NS			NS			NS			NS			NS		
Ballard Mine Pit Well West	MMW002	NS			NS			NS			NS			NS			NS		
Henry Mine North Pit – South	MMW003	NS			NS			NS			NS			NS			NS		
Henry Mine North Pit – North	MMW004	NS			NS			NS			NS			NS			NS		
Enoch Valley Shop/Office Well	MPW019	NS			NS			NS			NS			NS			NS		
Henry Mine South Pit	MPW022	NS			NS			NS			NS			NS			NS		
Henry Mine Center Pit	MPW023	NS			NS			NS			NS			NS			NS		
Reservoir Delta at Blackfoot River	MRV011	NS			11			NS			21		J	NS			50		
Reservoir Delta at Little Blackfoot River	MRV016	NS			13			NS			14	20	UJ	NS			87		
Reservoir Delta at Meadow Creek	MRV017	NS			7.8	8.4	U	NS			16	20	UJ	NS			24		
Enoch Valley Mine, Hedin Spring	MSG001	NS			19			NS			37		J	NS			66		
Henry Mine, Taylor Spring	MSG002	NS			28			NS			43		J	NS			73		
Ballard Mine, Garden Hose Spring	MSG003	NS			75			NS			87		J	NS			320		
Ballard Mine, Holmgren Spring	MSG004	NS			71			NS			85		J	NS			300		
Ballard Mine, Cattle Spring	MSG005-avg	NS			15			NS			30		J	NS			69		
	MSG005-R1	NA			15			NA			30		J	NA			68		
	MSG005-R2	NA			15			NA			30		J	NA			74		
	MSG005-R3	NA			14			NA			30		J	NA			65		
Ballard Mine Southeast Spring	MSG006	NS			11			NS			24		J	NS			47		
Ballard Mine Dredge Pond	MSP010	NS			1600			NS			210		J	NS			1000		
Ballard Mine Upper Elk Pond	MSP011	NS			190			NS			570		J	NS			1200		
Ballard Mine Lower Elk Pond	MSP012	NS			160			NS			770		J	NS			1200		
Ballard Mine Northeast Pond	MSP013	NS			140			NS			230		J	NS			660		
Henry Mine Henry Pond	MSP014	NS			43			NS			65		J	NS			230		
Henry Mine Smith Pond	MSP015	NS			48			NS			66		J	NS			270		
Henry Mine Center Henry Pond	MSP016	NS			87			NS			220		J	NS			560		
Enoch Valley Mine South Pond	MSP017	NS			84			NS			140		J	NS			420		
Enoch Valley Mine Keyhole Pond	MSP018	NS			780			NS			220		J	NS			4500		
Enoch Valley Mine Bat Cave Pond	MSP019	NS			91			NS			270		J	NS			890		
Enoch Valley Mine West Pond	MSP020	NS			120			NS			130		J	NS			700		
Enoch Valley Mine Stock Pond	MSP021	NS			120			NS			300		J	NS			830		
Enoch Valley Mine Tipple Pond	MSP022	NS			35			NS			98		J	NS			211		
Enoch Valley Mine Haul Road Pond	MSP023	NS			120			NS			440		J	NS			910		
Enoch Valley Mine Shop Pond	MSP031	NS			120			NS			180		J	NS			890		
Henry Mine South Pit Pond	MSP055	NS			250			NS			770		J	NS			1600		
Ballard Mine Pit #4 Stock Pond	MSP059	NS			230			NS			300		J	NS			990		
Ballard Mine Pit #6 Pond	MSP062	NS			260			NS			650		J	NS			1400		
Blackfoot River, below Ballard Creek	MST019	NS			15			NS			41		J	NS			120		

Table 5: Riparian Soil Analytical Data (mg/kg, dw) continued																			
		Nickel						Vanadium						Zinc					
		2001[c]			2004[p]			2001[c]			2004[p]			2001[c]			2004[p]		
Station Name	ID	Aug.	RL	Flag	Sept.	RL	Flag	Aug.	RL	Flag	Sept.	RL	Flag	Aug.	RL	Flag	Sept.	RL	Flag
Blackfoot River, below State Land Creek	MST020-avg	NS			16			NS			31		J	NS			80		
	MST020-R1	NA			16			NA			32		J	NA			84		
	MST020-R2	NA			15			NA			30		J	NA			77		
	MST020-R3	NA			16			NA			30		J	NA			80		
Blackfoot River, below Trail Creek	MST021	NS			22			NS			33		J	NS			100		
Blackfoot River, below Wooley Valley Creek	MST022-avg	NS			13			NS			26		J	NS			63		
	MST022-R1	NA			12			NA			26		J	NA			64		
	MST022-R2	NA			13			NA			26		J	NA			60		
	MST022-R3	NA			14			NA			26		J	NA			64		
Blackfoot River, below Dry Valley Creek	MST023	NS			11			NS			17	20	UJ	NS			48		
Blackfoot River, above Dry Valley Creek	MST024	NS			9.0			NS			17	20	UJ	NS			40		
Blackfoot River, below Wooley Range Ridge Creek	MST025-avg	NS			11			NS			19	20	UJ	NS			51		
	MST025-R1	NA			10			NA			19	20	UJ	NA			49		
	MST025-R2	NA			11			NA			19	20	UJ	NA			50		
	MST025-R3	NA			11			NA			20			NA			54		
Blackfoot River, above Wooley Range Ridge Creek	MST026-avg	14		J	15			18		J	27		J	41		J	83		
	MST026	NA			15			NA			27		J	NA			83		
	MST026-P1	16		J	NA			15		J	NA			33		J	NA		
	MST026-P2	14		J	NA			22		J	NA			52		J	NA		
	MST026-P3	11		J	NA			16		J	NA			37		J	NA		
Blackfoot River, below Angus Creek	MST027	NS			12			NS			21		J	NS			55		
Blackfoot River, above Diamond Creek Rd.	MST028	NS			9.5			NS			16	20	UJ	NS			33		
Blackfoot River, above Spring Creek	MST029	NS			7.3	8.4	U	NS			19	20	UJ	NS			41		
Little Blackfoot River, below Long Valley Creek	MST043	NS			20			NS			27		J	NS			91		
Little Blackfoot River, immediately below Henry Mine	MST044	NS			28			NS			38		J	NS			130		
Little Blackfoot River, above Henry Creek	MST045	NS			12			NS			24		J	NS			63		
Little Blackfoot River, below Lone Pine Creek	MST046	NS			14			NS			25		J	NS			71		
Little Blackfoot River, above Lone Pine Creek	MST047	NS			13			NS			29		J	NS			79		
Little Blackfoot River, below Reese Creek	MST048	NS			16			NS			28		J	NS			85		
Little Blackfoot River, above Reese Creek	MST049-avg	16		J	16			55		J	29		J	95		J	77		
	MST049	NA			16			NA			29		J	NA			77		
	MST049-P1	26		J	NA			57		J	NA			100		J	NA		
	MST049-P2	15		J	NA			52		J	NA			90		J	NA		
	MST049-P3	5.8		J	NA			57		J	NA			95		J	NA		
Long Valley Creek, below Ballard Mine, (ponded area)	MST050	NS			19			NS			32		J	NS			60		
East Fork Long Valley Creek, below Henry Mine	MST051-avg	NS			29			NS			53		J	NS			180		
	MST051-R1	NA			29			NA			52		J	NA			170		
	MST051-R2	NA			32			NA			56		J	NA			190		
	MST051-R3	NA			28			NA			50		J	NA			170		
Henry Creek, above Little Blackfoot River	MST052	NS			47			NS			80		J	NS			250		

Table 5: Riparian Soil Analytical Data (mg/kg, dw) continued																			
		Nickel						Vanadium						Zinc					
		2001[c]			2004 [p]			2001[c]			2004 [p]			2001[c]			2004 [p]		
Station Name	ID	Aug.	RL	Flag	Sept.	RL	Flag	Aug.	RL	Flag	Sept.	RL	Flag	Aug.	RL	Flag	Sept.	RL	Flag
Lone Pine Creek, above Little Blackfoot River	MST053-avg	NS			12			NS			28		J	NS			75		
	MST053-R1	NA			13			NA			29		J	NA			76		
	MST053-R2	NA			12			NA			27		J	NA			73		
	MST053-R3	NA			12			NA			28		J	NA			75		
Lone Pine Creek, above Spring-Fed Creek	MST054	NS			18			NS			27		J	NS			100		
Lone Pine Creek, below Strip Mine Creek	MST055	NS			14			NS			26		J	NS			82		
Lone Pine Creek, above Strip Mine Creek	MST056	NS			20			NS			32		J	NS			130		
Lone Pine Creek, above Lone Pine Creek	MST057	NS			21			NS			30		J	NS			140		
Lone Pine Creek, above West Fork Lone Pine Creek	MST058	NS			27			NS			36		J	NS			110		
West Rasmussen. Ridge Creek #1, above Lone Pine Creek	MST059-avg	NS			22			NS			39		J	NS			110		
	MST059-R1	NA			24			NA			44		J	NA			130		
	MST059-R2	NA			23			NA			41		J	NA			110		
	MST059-R3	NA			18			NA			32		J	NA			100		
West Rasmussen. Ridge Creek #2, above Lone Pine Creek	MST060	NS			20			NS			35		J	NS			130		
West Rasmussen. Ridge Creek #3, above Lone Pine Creek	MST061-avg	NS			48			NS			61		J	NS			360		
	MST061-R1	NA			48			NA			60		J	NA			360		
	MST061-R2	NA			48			NA			60		J	NA			350		
	MST061-R3	NA			48			NA			62		J	NA			370		
Strip Mine Creek, above Lone Pine Creek	MST062	NS			12			NS			20		J	NS			71		
Strip Mine Creek, below Henry Mine	MST063	NS			44			NS			55		J	NS			220		
West Fork Lone Pine Creek, above tributary	MST064	NS			23			NS			57		J	NS			130		
Ballard Creek, above Blackfoot River	MST066	NS			20			NS			62		J	NS			94		
Ballard Creek headwaters	MST067	NS			100			NS			210		J	NS			660		
West Fork Ballard Creek Headwaters	MST068	NS			110			NS			350		J	NS			690		
Short Creek, below Ballard Mine	MST069	NS			23			NS			45		J	NS			130		
Wooley Valley Creek, above Blackfoot River	MST088	NS			21			NS			43		J	NS			130		
Wooley Valley Creek, below North Fork Wooley Valley Creek	MST089	NS			24			NS			46		J	NS			160		
Wooley Valley Creek, above North Fork Wooley Valley Creek	MST090	NS			11			NS			23		J	NS			78		
North Fork Wooley Valley Creek, above Wooley Valley Creek	MST092-avg	NS			36			NS			74		J	NS			240		
	MST092-R1	NA			36			NA			76		J	NA			240		
	MST092-R2	NA			35			NA			73		J	NA			250		
	MST092-R3	NA			36			NA			74		J	NA			240		
North Fork Wooley Valley Creek, above Ballard Mine	MST093	NS			15			NS			30		J	NS			110		
Spring-fed tributary #1 of North Fork Wooley Valley Creek, below Ballard Mine	MST094	NS			24			NS			44		J	NS			92		
Spring-fed tributary #2of North Fork Wooley Valley Creek, below Ballard Mine	MST095	NS			70			NS			210		J	NS			440		

Table 5: Riparian Soil Analytical Data (mg/kg, dw) continued																			
		Nickel						Vanadium						Zinc					
		2001[c]			2004[p]			2001[c]			2004[p]			2001[c]			2004[p]		
Station Name	ID	Aug.	RL	Flag	Sept.	RL	Flag	Aug.	RL	Flag	Sept.	RL	Flag	Aug.	RL	Flag	Sept.	RL	Flag
Tributary of North Fork Wooley , below Ballard Mine	MST096	NS			17			NS			31		J	NS			43		
Caldwell Creek, below Phosphoria Formation outcrop	MST101	NS			21			NS			33		J	NS			99		
Angus Creek, above Blackfoot River	MST126	NS			23			NS			39		J	NS			110		
Angus Creek, below No Name Creek	MST127	NS			21			NS			36		J	NS			110		
Angus Creek, above Rasmussen Creek	MST128	NS			23			NS			38		J	NS			93		
Angus Creek, below Wooley Valley Mine	MST129	NS			28			NS			45		J	NS			140		
Angus Creek, below Upper Angus Creek Reservoir	MST130-avg	89		J	50			68		J	54		J	150		J	190		
	MST130	NA			50			NA			54		J	NA			190		
	MST130-P1	48		J	NA			75		J	NA			180		J	NA		
	MST130-P2	180		J	NA			66		J	NA			150		J	NA		
	MST130-P3	47		J	NA			63		J	NA			130		J	NA		
Rassmussen Creek, above Angus Creek	MST131	NS			21			NS			36		J	NS			110		
Angus Creek, below Rasmussen Creek	MST132-avg	NS			24			NS			39		J	NS			140		
	MST132-R1	NA			25			NA			39		J	NA			140		
	MST132-R2	NA			24			NA			39		J	NA			140		
	MST132-R3	NA			24			NA			40		J	NA			140		
Rasmussen Creek, below Enoch Valley Mine	MST133	NS			27			NS			39		J	NS			124		
Rasmussen Creek, below West Pond Creek	MST134	NS			25			NS			41		J	NS			137		
Rasmussen Creek, åbove West Pond Creek	MST135	NS			22			NS			45		J	NS			131		
Rasmussen Creek headwaters, near Enoch Valley Mine Shop Pond	MST136	NS			30			NS			30		J	NS			137		
East Fork Rasmussen Creek, above Rasmussen Creek	MST143	NS			23			NS			48		J	NS			120		
West Pond Creek headwaters, below West Pond	MST144	NS			41			NS			76		J	NS			197		
East Fork Lone Pine Creek, below Wooley Valley Mine	MST226	NS			31			NS			59		J	NS			120		
Blackfoot River, below Spring Creek	MST229	NS			26			NS			26		J	NS			119		
Blackfoot River, above State Land Creek	MST230	NS			13			NS			22		J	NS			60		
Blackfoot River, below Woodall Mountain Creek	MST231	NS			13			NS			22		J	NS			61		
Blackfoot River, above Blackfoot Reservoir	MST232-avg	NS			16			NS			31		J	NS			71		
	MST232-R1	NA			15			NA			30		J	NA			69		
	MST232-R2	NA			17			NA			33		J	NA			74		
	MST232-R3	NA			15			NA			30		J	NA			70		
Little Blackfoot River, above Blackfoot Reservoir	MST234	NS			23			NS			18	20	UJ	NS			170		
Meadow Creek, above Blackfoot Reservoir	MST235-avg	18		J	10			37		J	23		J	57		J	42		
	MST235	NA			10			NA			23		J	NA			42		
	MST235-P1	18		J	NA			27		J	NA			39		J	NA		
	MST235-P2	13		J	NA			48		J	NA			70		J	NA		
	MST235-P3	22		J	NA			37		J	NA			62		J	NA		

Table 5: Riparian Soil Analytical Data (mg/kg, dw) continued																			
		Nickel						Vanadium						Zinc					
		2001[c]			2004[p]			2001[c]			2004[p]			2001[i]			2004[p]		
Station Name	ID	Aug.	RL	Flag	Sept.	RL	Flag	Aug.	RL	Flag	Sept.	RL	Flag	Aug.	RL	Flag	Sept.	RL	Flag
Stewart Creek, above Diamond Creek	MST236	NS			27			NS			52		J	NS			160		
Timber Creek, above Diamond Creek	MST237-avg	24		J	18			50		J	35		J	99		J	91		
	MST237	NA			18			NA			35		J	NA			91		
	MST237-P1	24		J	NA			50		J	NA			100		J	NA		
	MST237-P2	25		J	NA			51		J	NA			100		J	NA		
	MST237-P3	24		J	NA			49		J	NA			98		J	NA		
Little Blackfoot River, upstream of Henry cutoff road	MST254	NS			13			NS			25		J	NS			60		
East Fork Rasmussen Creek headwaters	MST269	NS			210			NS			240		J	NS			1400		
Long Valley Creek, downstream of station MST050	MST270	NS			31			NS			51		J	NS			200		
Long Valley Creek, below East Fork Long Valley Creek	MST271	NS			20			NS			43		J	NS			110		
Wooley Valley Creek, above Loadout Creek at road	MST272	NS			34			NS			93		J	NS			200		
Wooley Valley Creek, above ponding and below MST089	MST273	NS			21			NS			43		J	NS			130		
West Fork Rasmussen Creek, above Rasmussen Creek	MST274	NS			22			NS			50		J	NS			78		
North Fork Lone Pine Creek, Northeast and above East Fork Lone Pine Creek	MST275	NS			18			NS			39		J	NS			57		
Tributary to West Fork Lone Pine Creek, above West Fork Lone Pine Creek	MST276	NS			35			NS			48		J	NS			280		
Spring-fed tributary, above Lone Pine Creek	MST277	NS			25			NS			57		J	NS			140		

Table 5: Riparian Soil Analytical Data (mg/kg, dw) continued													
		Aluminum			Antimony			Arsenic			Barium		
		2001[c]			2001[c]			2001[c]			2001[c]		
Station Name	ID	Aug.	RL	Flag	Aug.	RL	Flag	Aug.	RL	Flag	Aug.	RL	Flag
Henry Mine South Pit Overburden Dump Seep	MDS016	NS			NS			NS			NS		
Henry Mine South Pit Overburden Dump Limestone Drain	MDS022	NS			NS			NS			NS		
Enoch Valley Mine West Dump Seep	MDS025	NS			NS			NS			NS		
Enoch Valley Mine South Dump Seep	MDS026	NS			NS			NS			NS		
Ballard Mine Pit #2 Upper Dump Seep	MDS030	NS			NS			NS			NS		
Ballard Mine Pit #2 Lower Dump Seep South	MDS031	NS			NS			NS			NS		
Ballard Mine Pit #2 Lower Dump Seep North	MDS032	NS			NS			NS			NS		
Ballard Mine Goat Seep	MDS033	NS			NS			NS			NS		
Ballard Mine Pit Well East	MMW001	NS			NS			NS			NS		
Ballard Mine Pit Well West	MMW002	NS			NS			NS			NS		
Henry Mine North Pit – South	MMW003	NS			NS			NS			NS		
Henry Mine North Pit – North	MMW004	NS			NS			NS			NS		
Enoch Valley Shop/Office Well	MPW019	NS			NS			NS			NS		
Henry Mine South Pit	MPW022	NS			NS			NS			NS		
Henry Mine Center Pit	MPW023	NS			NS			NS			NS		
Reservoir Delta at Blackfoot River	MRV011	NS			NS			NS			NS		
Reservoir Delta at Little Blackfoot River	MRV016	NS			NS			NS			NS		
Reservoir Delta at Meadow Creek	MRV017	NS			NS			NS			NS		
Enoch Valley Mine, Hedin Spring	MSG001	NS			NS			NS			NS		
Henry Mine, Taylor Spring	MSG002	NS			NS			NS			NS		
Ballard Mine, Garden Hose Spring	MSG003	NS			NS			NS			NS		
Ballard Mine, Holmgren Spring	MSG004	NS			NS			NS			NS		
Ballard Mine, Cattle Spring	MSG005-avg	NS			NS			NS			NS		
	MSG005-R1	NA			NA			NA			NA		
	MSG005-R2	NA			NA			NA			NA		
	MSG005-R3	NA			NA			NA			NA		
Ballard Mine Southeast Spring	MSG006	NS			NS			NS			NS		
Ballard Mine Dredge Pond	MSP010	NS			NS			NS			NS		
Ballard Mine Upper Elk Pond	MSP011	NS			NS			NS			NS		
Ballard Mine Lower Elk Pond	MSP012	NS			NS			NS			NS		
Ballard Mine Northeast Pond	MSP013	NS			NS			NS			NS		
Henry Mine Henry Pond	MSP014	NS			NS			NS			NS		
Henry Mine Smith Pond	MSP015	NS			NS			NS			NS		
Henry Mine Center Henry Pond	MSP016	NS			NS			NS			NS		
Enoch Valley Mine South Pond	MSP017	NS			NS			NS			NS		
Enoch Valley Mine Keyhole Pond	MSP018	NS			NS			NS			NS		
Enoch Valley Mine Bat Cave Pond	MSP019	NS			NS			NS			NS		
Enoch Valley Mine West Pond	MSP020	NS			NS			NS			NS		
Enoch Valley Mine Stock Pond	MSP021	NS			NS			NS			NS		
Enoch Valley Mine Tipple Pond	MSP022	NS			NS			NS			NS		
Enoch Valley Mine Haul Road Pond	MSP023	NS			NS			NS			NS		
Enoch Valley Mine Shop Pond	MSP031	NS			NS			NS			NS		
Henry Mine South Pit Pond	MSP055	NS			NS			NS			NS		
Ballard Mine Pit #4 Stock Pond	MSP059	NS			NS			NS			NS		
Ballard Mine Pit #6 Pond	MSP062	NS			NS			NS			NS		
Blackfoot River, below Ballard Creek	MST019	NS			NS			NS			NS		

Table 5: Riparian Soil Analytical Data (mg/kg, dw) continued													
		Aluminum			Antimony			Arsenic			Barium		
		2001[c]			2001[c]			2001[c]			2001[c]		
Station Name	ID	Aug.	RL	Flag	Aug.	RL	Flag	Aug.	RL	Flag	Aug.	RL	Flag
Blackfoot River, below State Land Creek	MST020-avg	NS			NS			NS			NS		
	MST020-R1	NA			NA			NA			NA		
	MST020-R2	NA			NA			NA			NA		
	MST020-R3	NA			NA			NA			NA		
Blackfoot River, below Trail Creek	MST021	NS			NS			NS			NS		
Blackfoot River, below Wooley Valley Creek	MST022-avg	NS			NS			NS			NS		
	MST022-R1	NA			NA			NA			NA		
	MST022-R2	NA			NA			NA			NA		
	MST022-R3	NA			NA			NA			NA		
Blackfoot River, below Dry Valley Creek	MST023	NS			NS			NS			NS		
Blackfoot River, above Dry Valley Creek	MST024	NS			NS			NS			NS		
Blackfoot River, below Wooley Range Ridge Creek	MST025-avg	NS			NS			NS			NS		
	MST025-R1	NA			NA			NA			NA		
	MST025-R2	NA			NA			NA			NA		
	MST025-R3	NA			NA			NA			NA		
Blackfoot River, above Wooley Range Ridge Creek	MST026-avg	7900		R	0.60		J	3.0		R	97		J
	MST026	NA			NA			NA			NA		
	MST026-P1	6500		R	0.50		J	3.0		R	82		J
	MST026-P2	10000		R	0.74		J	3.2		R	110		J
	MST026-P3	7100		R	0.57		J	2.9		R	99		J
Blackfoot River, below Angus Creek	MST027	NS			NS			NS			NS		
Blackfoot River, above Diamond Creek Rd.	MST028	NS			NS			NS			NS		
Blackfoot River, above Spring Creek	MST029	NS			NS			NS			NS		
Little Blackfoot River, below Long Valley Creek	MST043	NS			NS			NS			NS		
Little Blackfoot River, immediately below Henry Mine	MST044	NS			NS			NS			NS		
Little Blackfoot River, above Henry Creek	MST045	NS			NS			NS			NS		
Little Blackfoot River, below Lone Pine Creek	MST046	NS			NS			NS			NS		
Little Blackfoot River, above Lone Pine Creek	MST047	NS			NS			NS			NS		
Little Blackfoot River, below Reese Creek	MST048	NS			NS			NS			NS		
Little Blackfoot River, above Reese Creek	MST049-avg	31000		R	0.097	0.38	UJ	5.7		R	190		J
	MST049	NA			NA			NA			NA		
	MST049-P1	28000		R	0.033	0.38	UJ	8.0		R	290		J
	MST049-P2	28000		R	0.13	0.38	UJ	6.3		R	190		J
	MST049-P3	36000		R	0.12	0.38	UJ	2.7		R	100		J
Long Valley Creek, below Ballard Mine, (ponded area)	MST050	NS			NS			NS			NS		
East Fork Long Valley Creek, below Henry Mine	MST051-avg	NS			NS			NS			NS		
	MST051-R1	NA			NA			NA			NA		
	MST051-R2	NA			NA			NA			NA		
	MST051-R3	NA			NA			NA			NA		
Henry Creek, above Little Blackfoot River	MST052	NS			NS			NS			NS		

Table 5: Riparian Soil Analytical Data (mg/kg, dw) continued													
		Aluminum			Antimony			Arsenic			Barium		
		2001[c]			2001[c]			2001[c]			2001[c]		
Station Name	ID	Aug.	RL	Flag	Aug.	RL	Flag	Aug.	RL	Flag	Aug.	RL	Flag
Lone Pine Creek, above Little Blackfoot River	MST053-avg	NS			NS			NS			NS		
	MST053-R1	NA			NA			NA			NA		
	MST053-R2	NA			NA			NA			NA		
	MST053-R3	NA			NA			NA			NA		
Lone Pine Creek, above Spring-Fed Creek	MST054	NS			NS			NS			NS		
Lone Pine Creek, below Strip Mine Creek	MST055	NS			NS			NS			NS		
Lone Pine Creek, above Strip Mine Creek	MST056	NS			NS			NS			NS		
Lone Pine Creek, above Lone Pine Creek	MST057	NS			NS			NS			NS		
Lone Pine Creek, above West Fork Lone Pine Creek	MST058	NS			NS			NS			NS		
West Rasmussen. Ridge Creek #1, above Lone Pine Creek	MST059-avg	NS			NS			NS			NS		
	MST059-R1	NA			NA			NA			NA		
	MST059-R2	NA			NA			NA			NA		
	MST059-R3	NA			NA			NA			NA		
West Rasmussen. Ridge Creek #2, above Lone Pine Creek	MST060	NS			NS			NS			NS		
West Rasmussen. Ridge Creek #3, above Lone Pine Creek	MST061-avg	NS			NS			NS			NS		
	MST061-R1	NA			NA			NA			NA		
	MST061-R2	NA			NA			NA			NA		
	MST061-R3	NA			NA			NA			NA		
Strip Mine Creek, above Lone Pine Creek	MST062	NS			NS			NS			NS		
Strip Mine Creek, below Henry Mine	MST063	NS			NS			NS			NS		
West Fork Lone Pine Creek, above tributary	MST064	NS			NS			NS			NS		
Ballard Creek, above Blackfoot River	MST066	NS			NS			NS			NS		
Ballard Creek headwaters	MST067	NS			NS			NS			NS		
West Fork Ballard Creek Headwaters	MST068	NS			NS			NS			NS		
Short Creek, below Ballard Mine	MST069	NS			NS			NS			NS		
Wooley Valley Creek, above Blackfoot River	MST088	NS			NS			NS			NS		
Wooley Valley Creek, below North Fork Wooley Valley Creek	MST089	NS			NS			NS			NS		
Wooley Valley Creek, above North Fork Wooley Valley Creek	MST090	NS			NS			NS			NS		
North Fork Wooley Valley Creek, above Wooley Valley Creek	MST092-avg	NS			NS			NS			NS		
	MST092-R1	NA			NA			NA			NA		
	MST092-R2	NA			NA			NA			NA		
	MST092-R3	NA			NA			NA			NA		
North Fork Wooley Valley Creek, above Ballard Mine	MST093	NS			NS			NS			NS		
Spring-fed tributary #1 of North Fork Wooley Valley Creek, below Ballard Mine	MST094	NS			NS			NS			NS		
Spring-fed tributary #2of North Fork Wooley Valley Creek, below Ballard Mine	MST095	NS			NS			NS			NS		

Table 5: Riparian Soil Analytical Data (mg/kg, dw) continued													
		Aluminum			Antimony			Arsenic			Barium		
		2001[c]			2001[c]			2001[c]			2001[c]		
Station Name	ID	Aug.	RL	Flag	Aug.	RL	Flag	Aug.	RL	Flag	Aug.	RL	Flag
Tributary of North Fork Wooley , below Ballard Mine	MST096	NS			NS			NS			NS		
Caldwell Creek, below Phosphoria Formation outcrop	MST101	NS			NS			NS			NS		
Angus Creek, above Blackfoot River	MST126	NS			NS			NS			NS		
Angus Creek, below No Name Creek	MST127	NS			NS			NS			NS		
Angus Creek, above Rasmussen Creek	MST128	NS			NS			NS			NS		
Angus Creek, below Wooley Valley Mine	MST129	NS			NS			NS			NS		
Angus Creek, below Upper Angus Creek Reservoir	MST130-avg	34000		R	0.82		J	8.3		R	210		J
	MST130	NA			NA			NA			NA		
	MST130-P1	36000		R	0.84		J	9.3		R	210		J
	MST130-P2	33000		R	0.93		J	7.9		R	230		J
	MST130-P3	33000		R	0.70		J	7.6		R	190		J
Rassmussen Creek, above Angus Creek	MST131	NS			NS			NS			NS		
Angus Creek, below Rasmussen Creek	MST132-avg	NS			NS			NS			NS		
	MST132-R1	NA			NA			NA			NA		
	MST132-R2	NA			NA			NA			NA		
	MST132-R3	NA			NA			NA			NA		
Rasmussen Creek, below Enoch Valley Mine	MST133	NS			NS			NS			NS		
Rasmussen Creek, below West Pond Creek	MST134	NS			NS			NS			NS		
Rasmussen Creek, above West Pond Creek	MST135	NS			NS			NS			NS		
Rasmussen Creek headwaters, near Enoch Valley Mine Shop Pond	MST136	NS			NS			NS			NS		
East Fork Rasmussen Creek, above Rasmussen Creek	MST143	NS			NS			NS			NS		
West Pond Creek headwaters, below West Pond	MST144	NS			NS			NS			NS		
East Fork Lone Pine Creek, below Wooley Valley Mine	MST226	NS			NS			NS			NS		
Blackfoot River, below Spring Creek	MST229	NS			NS			NS			NS		
Blackfoot River, above State Land Creek	MST230	NS			NS			NS			NS		
Blackfoot River, below Woodall Mountain Creek	MST231	NS			NS			NS			NS		
Blackfoot River, above Blackfoot Reservoir	MST232-avg	NS			NS			NS			NS		
	MST232-R1	NA			NA			NA			NA		
	MST232-R2	NA			NA			NA			NA		
	MST232-R3	NA			NA			NA			NA		
Little Blackfoot River, above Blackfoot Reservoir	MST234	NS			NS			NS			NS		
Meadow Creek, above Blackfoot Reservoir	MST235-avg	18000		R	0.57		J	6.5		R	150		J
	MST235	NA			NA			NA			NA		
	MST235-P1	12000		R	0.79		J	5.6		R	100		J
	MST235-P2	25000		R	0.53		J	7.5		R	210		J
	MST235-P3	18000		R	0.40		J	6.3		R	150		J

Table 5: Riparian Soil Analytical Data (mg/kg, dw) continued													
		Aluminum			Antimony			Arsenic			Barium		
		2001[c]			2001[c]			2001[c]			2001[c]		
Station Name	ID	Aug.	RL	Flag	Aug.	RL	Flag	Aug.	RL	Flag	Aug.	RL	Flag
Stewart Creek, above Diamond Creek	MST236	NS			NS		J	NS			NS		J
Timber Creek, above Diamond Creek	MST237-avg	24000		R	0.69		J	7.9		R	160		J
	MST237	NA			NA			NA			NA		
	MST237-P1	24000		R	0.64		J	7.2		R	150		J
	MST237-P2	25000		R	0.76		J	8.8		R	160		J
	MST237-P3	24000		R	0.68		J	7.7		R	160		J
Little Blackfoot River, upstream of Henry cutoff road	MST254	NS			NS			NS			NS		
East Fork Rasmussen Creek headwaters	MST269	NS			NS			NS			NS		
Long Valley Creek, downstream of station MST050	MST270	NS			NS			NS			NS		
Long Valley Creek, below East Fork Long Valley Creek	MST271	NS			NS			NS			NS		
Wooley Valley Creek, above Loadout Creek at road	MST272	NS			NS			NS			NS		
Wooley Valley Creek, above ponding and below MST089	MST273	NS			NS			NS			NS		
West Fork Rasmussen Creek, above Rasmussen Creek	MST274	NS			NS			NS			NS		
North Fork Lone Pine Creek, Northeast and above East Fork Lone Pine Creek	MST275	NS			NS			NS			NS		
Tributary to West Fork Lone Pine Creek, above West Fork Lone Pine Creek	MST276	NS			NS			NS			NS		
Spring-fed tributary, above Lone Pine Creek	MST277	NS			NS			NS			NS		

Table 5: Riparian Soil Analytical Data (mg/kg, dw) continued																												
		Beryllium			Lead			Manganese			Mercury			Silver			Sodium			Thallium			pH					
		2001[c]			2001[c]			2001[c]			2001[c]			2001[c]			2001[c]			2001[c]			2001[c]			2004[p]		
Station Name	ID	Aug.	RL	Flag	Aug.	RL	Flag	Aug.	RL	Flag	Aug.	RL	Flag	Aug.	RL	Flag	Aug.	RL	Flag	Aug.	RL	Flag	Aug.	RL	Flag	Sept.	RL	Flag
Henry Mine South Pit Overburden Dump Seep	MDS016	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Henry Mine South Pit Overburden Dump Limestone Drain	MDS022	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Enoch Valley Mine West Dump Seep	MDS025	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Enoch Valley Mine South Dump Seep	MDS026	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Ballard Mine Pit #2 Upper Dump Seep	MDS030	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Ballard Mine Pit #2 Lower Dump Seep South	MDS031	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Ballard Mine Pit #2 Lower Dump Seep North	MDS032	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Ballard Mine Goat Seep	MDS033	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Ballard Mine Pit Well East	MMW001	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Ballard Mine Pit Well West	MMW002	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Henry Mine North Pit – South	MMW003	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Henry Mine North Pit – North	MMW004	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Enoch Valley Shop/Office Well	MPW019	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Henry Mine South Pit	MPW022	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Henry Mine Center Pit	MPW023	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Reservoir Delta at Blackfoot River	MRV011	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Reservoir Delta at Little Blackfoot River	MRV016	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Reservoir Delta at Meadow Creek	MRV017	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Enoch Valley Mine, Hedin Spring	MSG001	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Henry Mine, Taylor Spring	MSG002	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Ballard Mine, Garden Hose Spring	MSG003	NS			52			NS			NS			NS			NS			NS			NS			NS		
Ballard Mine, Holmgren Spring	MSG004	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Ballard Mine, Cattle Spring	MSG005-avg	NS			NS			NS			NS			NS			NS			NS			NS			7.8		
	MSG005-R1	NA			NA			NA			NA			NA			NA			NA			NA			7.9		
	MSG005-R2	NA			NA			NA			NA			NA			NA			NA			NA			7.6		
	MSG005-R3	NA			NA			NA			NA			NA			NA			NA			NA			7.8		
Ballard Mine Southeast Spring	MSG006	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Ballard Mine Dredge Pond	MSP010	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Ballard Mine Upper Elk Pond	MSP011	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Ballard Mine Lower Elk Pond	MSP012	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Ballard Mine Northeast Pond	MSP013	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Henry Mine Henry Pond	MSP014	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Henry Mine Smith Pond	MSP015	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Henry Mine Center Henry Pond	MSP016	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Enoch Valley Mine South Pond	MSP017	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Enoch Valley Mine Keyhole Pond	MSP018	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Enoch Valley Mine Bat Cave Pond	MSP019	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Enoch Valley Mine West Pond	MSP020	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Enoch Valley Mine Stock Pond	MSP021	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Enoch Valley Mine Tipple Pond	MSP022	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Enoch Valley Mine Haul Road Pond	MSP023	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Enoch Valley Mine Shop Pond	MSP031	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Henry Mine South Pit Pond	MSP055	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Ballard Mine Pit #4 Stock Pond	MSP059	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Ballard Mine Pit #6 Pond	MSP062	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Blackfoot River, below Ballard Creek	MST019	NS			NS			NS			NS			NS			NS			NS			NS			NS		

Table 5: Riparian Soil Analytical Data (mg/kg, dw) continued																												
		Beryllium			Lead			Manganese			Mercury			Silver			Sodium			Thallium			pH					
		2001[c]			2001[c]			2001[c]			2001[c]			2001[c]			2001[c]			2001[c]			2001[c]			2004[p]		
Station Name	ID	Aug.	RL	Flag	Aug.	RL	Flag	Aug.	RL	Flag	Aug.	RL	Flag	Aug.	RL	Flag	Aug.	RL	Flag	Aug.	RL	Flag	Aug.	RL	Flag	Sept.	RL	Flag
	MST020-avg	NS			NS			NS			NS			NS			NS			NS			NS			7.5		
Blackfoot River, below State Land Creek	MST020-R1	NA			NA			NA			NA			NA			NA			NA			NA			7.4		
	MST020-R2	NA			NA			NA			NA			NA			NA			NA			NA			7.4		
	MST020-R3	NA			NA			NA			NA			NA			NA			NA			NA			7.6		
Blackfoot River, below Trail Creek	MST021	NS			NS			NS			NS			NS			NS			NS			NS			NS		
	MST022-avg	NS			NS			NS			NS			NS			NS			NS			NS			7.4		
Blackfoot River, below Wooley Valley Creek	MST022-R1	NA			NA			NA			NA			NA			NA			NA			NA			7.3		
	MST022-R2	NA			NA			NA			NA			NA			NA			NA			NA			7.4		
	MST022-R3	NA			NA			NA			NA			NA			NA			NA			NA			7.4		
Blackfoot River, below Dry Valley Creek	MST023	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Blackfoot River, above Dry Valley Creek	MST024	NS			NS			NS			NS			NS			NS			NS			NS			NS		
	MST025-avg	NS			NS			NS			NS			NS			NS			NS			NS			7.3		
Blackfoot River, below Wooley Range Ridge Creek	MST025-R1	NA			NA			NA			NA			NA			NA			NA			NA			7.3		
	MST025-R2	NA			NA			NA			NA			NA			NA			NA			NA			7.3		
	MST025-R3	NA			NA			NA			NA			NA			NA			NA			NA			7.3		
	MST026-avg	0.51		J	5.0		R	230		J	0.072	0.026<x<0.076	U	0.075			96	80<x<110	UR	0.12	0.38	U	7.6			NS		
Blackfoot River, above Wooley Range Ridge Creek	MST026-P1	0.41		J	3.8		R	190		J	0.077			0.082			140		R	0.12	0.38	U	7.7			NA		
	MST026-P2	0.63		J	6.4		R	240		J	0.073	0.075	U	0.078			100		R	0.14	0.38	U	7.5			NA		
	MST026-P3	0.49		J	4.7		R	250		J	0.066	0.075	U	0.064			46	100	UR	0.093	0.38	U	7.6			NA		
Blackfoot River, below Angus Creek	MST027	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Blackfoot River, above Diamond Creek Rd.	MST028	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Blackfoot River, above Spring Creek	MST029	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Little Blackfoot River, below Long Valley Creek	MST043	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Little Blackfoot River, immediately below Henry Mine	MST044	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Little Blackfoot River, above Henry Creek	MST045	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Little Blackfoot River, below Lone Pine Creek	MST046	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Little Blackfoot River, above Lone Pine Creek	MST047	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Little Blackfoot River, below Reese Creek	MST048	NS			NS			NS			NS			NS			NS			NS			NS			NS		
	MST049-avg	0.62		J	11		R	1400		J	39			0.035	0.038	U	120	90<x<120	UR	0.21	0.38	U	6.7			NS		
Little Blackfoot River, above Reese Creek	MST049-P1	1.1		J	15		R	1800		J	39			0.079			170		R	0.30	0.38	U	6.7			NA		
	MST049-P2	0.65		J	12		R	1500		J	40			0.041			86	100	UR	0.20	0.38	U	6.8			NA		
	MST049-P3	0.10		J	6.5		R	1000		J	38			-0.014	0.038	U	100		R	0.12	0.38	U	6.6			NA		
Long Valley Creek, below Ballard Mine, (ponded area)	MST050	NS			NS			NS			NS			NS			NS			NS			NS			NS		
	MST051-avg	NS			NS			NS			NS			NS			NS			NS			NS			6.6		
East Fork Long Valley Creek, below Henry Mine	MST051-R1	NA			NA			NA			NA			NA			NA			NA			NA			6.6		
	MST051-R2	NA			NA			NA			NA			NA			NA			NA			NA			6.6		
	MST051-R3	NA			NA			NA			NA			NA			NA			NA			NA			6.6		
Henry Creek, above Little Blackfoot River	MST052	NS			NS			NS			NS			NS			NS			NS			NS			NS		
	MST053-avg	NS			NS			NS			NS			NS			NS			NS			NS			7.0		
Lone Pine Creek, above Little Blackfoot River	MST053-R1	NA			NA			NA			NA			NA			NA			NA			NA			7.0		
	MST053-R2	NA			NA			NA			NA			NA			NA			NA			NA			7.1		
	MST053-R3	NA			NA			NA			NA			NA			NA			NA			NA			7.0		
Lone Pine Creek, above Spring-Fed Creek	MST054	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Lone Pine Creek, below Strip Mine Creek	MST055	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Lone Pine Creek, above Strip Mine Creek	MST056	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Lone Pine Creek, above Lone Pine Creek	MST057	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Lone Pine Creek, above West Fork Lone Pine Creek	MST058	NS			NS			NS			NS			NS			NS			NS			NS			NS		

Table 5: Riparian Soil Analytical Data (mg/kg, dw) continued																											
		Beryllium			Lead			Manganese			Mercury			Silver			Sodium			Thallium			pH					
		2001[c]			2001[c]			2001[c]			2001[c]			2001[c]			2001[c]			2001[c]			2001[c]			2004[p]		
Station Name	ID	Aug.	RL	Flag	Aug.	RL	Flag	Aug.	RL	Flag	Aug.	RL	Flag	Aug.	RL	Flag	Aug.	RL	Flag	Aug.	RL	Flag	Aug.	RL	Flag	Sept.	RL	Flag
West Rasmussen. Ridge Creek #1, above Lone Pine Creek	MST059-avg	NS			NS			NS			NS			NS			NS			NS			NS			7.0		
	MST059-R1	NA			NA			NA			NA			NA			NA			NA			NA			6.7		
	MST059-R2	NA			NA			NA			NA			NA			NA			NA			NA			7.1		
	MST059-R3	NA			NA			NA			NA			NA			NA			NA			NA			7.3		
West Rasmussen. Ridge Creek #2, above Lone Pine Creek	MST060	NS			NS			NS			NS			NS			NS			NS			NS			NS		
West Rasmussen. Ridge Creek #3, above Lone Pine Creek	MST061-avg	NS			NS			NS			NS			NS			NS			NS			NS			7.0		
	MST061-R1	NA			NA			NA			NA			NA			NA			NA			NA			6.8		
	MST061-R2	NA			NA			NA			NA			NA			NA			NA			NA			7.0		
	MST061-R3	NA			NA			NA			NA			NA			NA			NA			NA			7.1		
Strip Mine Creek, above Lone Pine Creek	MST062	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Strip Mine Creek, below Henry Mine	MST063	NS			NS			NS			NS			NS			NS			NS			NS			NS		
West Fork Lone Pine Creek, above tributary	MST064	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Ballard Creek, above Blackfoot River	MST066	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Ballard Creek headwaters	MST067	NS			NS			NS			NS			NS			NS			NS			NS			NS		
West Fork Ballard Creek Headwaters	MST068	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Short Creek, below Ballard Mine	MST069	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Wooley Valley Creek, above Blackfoot River	MST088	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Wooley Valley Creek, below North Fork Wooley Valley Creek	MST089	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Wooley Valley Creek, above North Fork Wooley Valley Creek	MST090	NS			NS			NS			NS			NS			NS			NS			NS			NS		
North Fork Wooley Valley Creek, above Wooley Valley Creek	MST092-avg	NS			NS			NS			NS			NS			NS			NS			NS			6.5		
	MST092-R1	NA			NA			NA			NA			NA			NA			NA			NA			6.8		
	MST092-R2	NA			NA			NA			NA			NA			NA			NA			NA			6.3		
	MST092-R3	NA			NA			NA			NA			NA			NA			NA			NA			6.5		
North Fork Wooley Valley Creek, above Ballard Mine	MST093	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Spring-fed tributary #1 of North Fork Wooley Valley Creek, below Ballard Mine	MST094	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Spring-fed tributary #2of North Fork Wooley Valley Creek, below Ballard Mine	MST095	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Tributary of North Fork Wooley , below Ballard Mine	MST096	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Caldwell Creek, below Phosphoria Formation outcrop	MST101	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Angus Creek, above Blackfoot River	MST126	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Angus Creek, below No Name Creek	MST127	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Angus Creek, above Rasmussen Creek	MST128	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Angus Creek, below Wooley Valley Mine	MST129	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Angus Creek, below Upper Angus Creek Reservoir	MST130-avg	1.7		J	17		R	1900		J	44			0.20			-2.2	100	UR	0.35	0.13<x<0.39	U	6.8			NS		
	MST130-P1	1.8		J	17		R	1800		J	56			0.22			11	100	UR	0.40			6.8			NA		
	MST130-P2	1.7		J	19		R	2300		J	37			0.22			-25	100	UR	0.30	0.38	U	6.9			NA		
	MST130-P3	1.7		J	16		R	1500		J	40			0.16			7.3	100	UR	0.34	0.38	U	6.7			NA		
Rassmussen Creek, above Angus Creek	MST131	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Angus Creek, below Rasmussen Creek	MST132-avg	NS			NS			NS			NS			NS			NS			NS			NS			6.5		
	MST132-R1	NA			NA			NA			NA			NA			NA			NA			NA			6.7		
	MST132-R2	NA			NA			NA			NA			NA			NA			NA			NA			6.3		
	MST132-R3	NA			NA			NA			NA			NA			NA			NA			NA			6.6		
Rasmussen Creek, below Enoch Valley Mine	MST133	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Rasmussen Creek, below West Pond Creek	MST134	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Rasmussen Creek, above West Pond Creek	MST135	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Rasmussen Creek headwaters, near Enoch Valley Mine Shop Pond	MST136	NS			NS			NS			NS			NS			NS			NS			NS			NS		
East Fork Rasmussen Creek, above Rasmussen Creek	MST143	NS			NS			NS			NS			NS			NS			NS			NS			NS		
West Pond Creek headwaters, below West Pond	MST144	NS			NS			NS			NS			NS			NS			NS			NS			NS		
East Fork Lone Pine Creek, below Wooley Valley Mine	MST226	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Blackfoot River, below Spring Creek	MST229	NS			NS			NS			NS			NS			NS			NS			NS			NS		

Table 5: Riparian Soil Analytical Data (mg/kg, dw) continued

		Beryllium			Lead			Manganese			Mercury			Silver			Sodium			Thallium			pH					
		2001[c]			2001[c]			2001[c]			2001[c]			2001[c]			2001[c]			2001[c]			2001[c]			2004[p]		
Station Name	ID	Aug.	RL	Flag	Aug.	RL	Flag	Aug.	RL	Flag	Aug.	RL	Flag	Aug.	RL	Flag	Aug.	RL	Flag	Aug.	RL	Flag	Aug.	RL	Flag	Sept.	RL	Flag
Blackfoot River, above State Land Creek	MST230	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Blackfoot River, below Woodall Mountain Creek	MST231	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Blackfoot River, above Blackfoot Reservoir	MST232-avg	NS			NS			NS			NS			NS			NS			NS			NS			7.1		
	MST232-R1	NA			NA			NA			NA			NA			NA			NA			NA			7.1		
	MST232-R2	NA			NA			NA			NA			NA			NA			NA			NA			7.1		
	MST232-R3	NA			NA			NA			NA			NA			NA			NA			NA			7.2		
Little Blackfoot River, above Blackfoot Reservoir	MST234	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Meadow Creek, above Blackfoot Reservoir	MST235-avg	0.79		J	11		R	440		J	15			0.069			210		R	0.15	0.38	U	7.4			NS		
	MST235-P1	0.57		J	8.1		R	270		J	12			0.050			160		R	0.097	0.38	U	7.4			NA		
	MST235-P2	0.99		J	14		R	585		J	14			0.095			280		R	0.20	0.38	U	7.6			NA		
	MST235-P3	0.81		J	11		R	460		J	20			0.062			190		R	0.15	0.38	U	7.3			NA		
Stewart Creek, above Diamond Creek	MST236	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Timber Creek, above Diamond Creek	MST237-avg	1.0		J	14		R	870		J	33			0.069			203		R	0.25	0.38	U	7.1			NS		
	MST237-P1	1.0		J	14		R	620		J	31			0.070			220		R	0.24	0.38	U	7.0			NA		
	MST237-P2	1.0		J	14		R	1100		J	36			0.076			240		R	0.24	0.38	U	7.2			NA		
	MST237-P3	1.0		J	14		R	880		J	31			0.061			150		R	0.28	0.38	U	7.2			NA		
Little Blackfoot River, upstream of Henry cutoff road	MST254	NS			NS			NS			NS			NS			NS			NS			NS			NS		
East Fork Rasmussen Creek headwaters	MST269	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Long Valley Creek, downstream of station MST050	MST270	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Long Valley Creek, below East Fork Long Valley Creek	MST271	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Wooley Valley Creek, above Loadout Creek at road	MST272	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Wooley Valley Creek, above ponding and below MST089	MST273	NS			NS			NS			NS			NS			NS			NS			NS			NS		
West Fork Rasmussen Creek, above Rasmussen Creek	MST274	NS			NS			NS			NS			NS			NS			NS			NS			NS		
North Fork Lone Pine Creek, Northeast and above East Fork Lone Pine Creek	MST275	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Tributary to West Fork Lone Pine Creek, above West Fork Lone Pine Creek	MST276	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Spring-fed tributary, above Lone Pine Creek	MST277	NS			NS			NS			NS			NS			NS			NS			NS			NS		

Notes:

Laboratory duplicates (D, D1), field replicates (R1, R2, R3), pseudo-replicates (P1, P2, P3) are shown as unaveraged as well as averaged where appropriate.

Data qualifier definitions are:

p - Data were utilized in the *Phase 1 Site Investogation for Enoch Valley, Henry, and Ballard mines. Draft Interim Phase 1 Sis Evaluation Summary*

c - Data were utilized in the MWH, 2002, *Final - Summer 2001 Area-Wide Investigation Data Summary, Southeast Idaho Phosphate Resource Area Selenium Project.*

(U) - The material was analyzed for, but was not detected above the level of the associated value. The associated value is the sample reporting limit.

(J) - The result is an estimated quantity.

(R) - The data are unusable.

(UJ) - The material was analyzed for, but was not detected above the level of the associated value. The result is an estimate and may be inaccurate or imprecise.

RL - Reporting Limit.

NA - Not Applicable.

NS - Not Sampled.

Table 6: Riparian Vegetation Historical Analytical Data (mg/kg, dw)																									
		Selenium																							
Station		1999 [c]			2001 [c]			2004 [p]																	
Name	ID	Sept.	RL	Flag	Sept.	RL	Flag	May	RL	Flag	June	RL	Flag	July	RL	Flag	Aug.	RL	Flag	Sept.	RL	Flag	Oct.	RL	Flag
Henry Mine South Pit Overburden Dump Seep, (1997 #28)	MDS016	NS			NS			NS			NS			NS			NS			0.70			NS		
Henry Mine South Pit Overburden Dump Limestone Drain (formerly FD002) (1997 #29)	MDS022	NS			NS			NS			NS			NS			NS			0.24	0.50	U	NS		
Enoch Valley Mine West Dump Seep	MDS025	NS			NS			NS			NS			NS			NS			14			NS		
Enoch Valley Mine South Dump Seep	MDS026	NS			NS			NS			NS			NS			NS			0.60			NS		
Ballard Mine Pit #2 Upper Dump Seep	MDS030	NS			NS			NS			NS			NS			NS			2			NS		
Ballard Mine Pit #2 Lower Dump Seep South	MDS031	NS			NS			NS			NS			NS			NS			12			NS		
Ballard Mine Pit #2 Lower Dump Seep North	MDS032	NS			NS			NS			NS			NS			NS			11			NS		
Ballard Mine Goat Seep	MDS033	NS			NS			NS			NS			NS			NS			6.7			NS		
Ballard Mine Pit Well East	MMW001	NS			NS			NS			NS			NS			NS			NS			NS		
Ballard Mine Pit Well West	MMW002	NS			NS			NS			NS			NS			NS			NS			NS		
Henry Mine North Pit – South	MMW003	NS			NS			NS			NS			NS			NS			NS			NS		
Henry Mine North Pit – North	MMW004	NS			NS			NS			NS			NS			NS			NS			NS		
Enoch Valley Shop/Office Well	MPW019	NS			NS			NS			NS			NS			NS			NS			NS		
Henry Mine South Pit	MPW022	NS			NS			NS			NS			NS			NS			NS			NS		
Henry Mine Center Pit	MPW023	NS			NS			NS			NS			NS			NS			NS			NS		
Upper Blackfoot Reservoir	MRV001	0.32			NS			NS			NS			NS			NS			NS			NS		
Upper Blackfoot Reservoir	MRV002-avg	0.85			NS			NS			NS			NS			NS			NS			NS		
	MRV002-P1	0.75			NA			NA			NA			NA			NA			NA			NA		
	MRV002-P2-R1	0.90			NA			NA			NA			NA			NA			NA			NA		
	MRV002-P2-R2	0.95			NA			NA			NA			NA			NA			NA			NA		
	MRV002-P2-R3	0.98			NA			NA			NA			NA			NA			NA			NA		
Upper Blackfoot Reservoir	MRV003-avg	0.19			NS			NS			NS			NS			NS			NS			NS		
	MRV003	0.19			NS			NS			NS			NS			NS			NS			NS		
	MRV003-D	NA			NA			NA			NA			NA			NA			NA			NA		
Upper Blackfoot Reservoir	MRV004-avg	0.16			NS			NS			NS			NS			NS			NS			NS		
	MRV004	0.18			NS			NS			NS			NS			NS			NS			NS		
	MRV004-D	0.14			NA			NA			NA			NA			NA			NA			NA		
Upper Blackfoot Reservoir	MRV005	0.40			NS			NS			NS			NS			NS			NS			NS		
Lower Blackfoot Reservoir	MRV006-avg	0.62			NS			NS			NS			NS			NS			NS			NS		
	MRV006	0.61			NS			NS			NS			NS			NS			NS			NS		
	MRV006-D	0.62			NA			NA			NA			NA			NA			NA			NA		
Lower Blackfoot Reservoir	MRV007-avg	0.39			NS			NS			NS			NS			NS			NS			NS		
	MRV007-P1-R1	0.39			NA			NA			NA			NA			NA			NA			NA		
	MRV007-P1-R2	0.32			NA			NA			NA			NA			NA			NA			NA		
	MRV007-P1-R3	0.40			NA			NA			NA			NA			NA			NA			NA		
	MRV007-P2	0.40			NA			NA			NA			NA			NA			NA			NA		
Lower Blackfoot Reservoir	MRV008	0.11			NS			NS			NS			NS			NS			NS			NS		
Lower Blackfoot Reservoir	MRV009	0.41			NS			NS			NS			NS			NS			NS			NS		
Lower Blackfoot Reservoir	MRV010	0.22			NS			NS			NS			NS			NS			NS			NS		
Reservoir Delta at Blackfoot River	MRV011	0.66			NS			NS			NS			NS			NS			0.069	0.50	U	NS		
Reservoir Delta at Little Blackfoot River	MRV016	NS			NS			NS			NS			NS			NS			-0.28	0.50	U	NS		
Reservoir Delta at Meadow Creek	MRV017	NS			NS			NS			NS			NS			NS			-0.36	0.50	U	NS		
Enoch Valley Mine, Hedin Spring	MSG001	NS			NS			NS			NS			NS			NS			-0.0053	0.50	U	NS		
Henry Mine, Taylor Spring	MSG002	NS			NS			NS			NS			NS			NS			0.40	0.50	U	NS		
Ballard Mine, Garden Hose Spring	MSG003	NS			NS			NS			NS			NS			NS			9.3			NS		
Ballard Mine, Holmgren Spring	MSG004	NS			NS			NS			NS			NS			NS			1.3			NS		

Table 6: Riparian Vegetation Historical Analytical Data (mg/kg, dw) continued																								
		Selenium																						
Station		1999 [c]			2001 [c]			2004 [D]																
Name	ID	Sept.	RL	Flag	Sept.	RL	Flag	May	RL	Flag	June	RL	Flag	July	RL	Flag	Aug.	RL	Flag	Sept.	RL	Flag	Oct.	RL	Flag
Ballard Mine, Cattle Spring	MSG005-avg	NS			NS			NS			NS			NS			NS			0.93			NS		
	MSG005-R1	NA			NA			NA			NA			NA			NA			1.0			NA		
	MSG005-R2	NA			NA			NA			NA			NA			NA			0.90			NA		
	MSG005-R3	NA			NA			NA			NA			NA			NA			0.90			NA		
Ballard Mine Southeast Spring	MSG006	NS			NS			NS			NS			NS			NS			17			NS		
Ballard Mine Dredge Pond	MSP010	NS			NS			NS			NS			NS			NS			27			NS		
Ballard Mine Upper Elk Pond	MSP011	NS			NS			NS			NS			NS			NS			8.5			NS		
Ballard Mine Lower Elk Pond	MSP012	NS			NS			NS			NS			NS			NS			10			NS		
Ballard Mine Northeast Pond	MSP013	NS			NS			NS			NS			NS			NS			23			NS		
Henry Mine Henry Pond	MSP014	NS			NS			NS			NS			NS			NS			3.3			NS		
Henry Mine Smith Pond	MSP015	NS			NS			NS			NS			NS			NS			25			NS		
Henry Mine Center Henry Pond	MSP016	NS			NS			NS			NS			NS			NS			6.5			NS		
Enoch Valley Mine South Pond	MSP017	NS			NS			NS			NS			NS			NS			11			NS		
Enoch Valley Mine Keyhole Pond	MSP018	NS			NS			NS			NS			NS			NS			17			NS		
Enoch Valley Mine Bat Cave Pond	MSP019	NS			NS			NS			NS			NS			NS			6.4			NS		
Enoch Valley Mine West Pond	MSP020	NS			NS			NS			NS			NS			NS			15			NS		
Enoch Valley Mine Stock Pond	MSP021	NS			NS			NS			NS			NS			NS			11			NS		
Enoch Valley Mine Tipple Pond	MSP022	NS			NS			NS			NS			NS			NS			2.8			NS		
Enoch Valley Mine Haul Road Pond	MSP023	NS			NS			NS			NS			NS			NS			3.4			NS		
Enoch Valley Mine Shop Pond	MSP031	NS			NS			NS			NS			NS			NS			3.6			NS		
Henry Mine South Pit Pond	MSP055	NS			NS			NS			NS			NS			NS			65			NS		
Ballard Mine Pit #4 Stock Pond	MSP059	NS			NS			NS			NS			NS			NS			16			NS		
Ballard Mine Pit #6 Pond	MSP062	NS			NS			NS			NS			NS			NS			3.2			NS		
Blackfoot River, below Ballard Creek	MST019-avg	1.0			NS			NS			NS			NS			NS			-0.25	0.50	U	NS		
	MST019	NA			NS			NS			NS			NS			NS			-0.25	0.50	U	NS		
	MST019-P1	0.87			NA			NA			NA			NA			NA			NA			NA		
	MST019-P2	0.90			NA			NA			NA			NA			NA			NA			NA		
	MST019-P2-D	NA			NA			NA			NA			NA			NA			NA			NA		
	MST019-P3	1.2			NA			NA			NA			NA			NA			NA			NA		
Blackfoot River, below State Land Creek	MST020-avg	NS			NS			NS			NS			NS			NS			0.16	0.50	U	NS		
	MST020-R1	NA			NA			NA			NA			NA			NA			0.17	0.50	U	NA		
	MST020-R2	NA			NA			NA			NA			NA			NA			0.18	0.50	U	NA		
	MST020-R3	NA			NA			NA			NA			NA			NA			0.12	0.50	U	NA		
Blackfoot River, below Trail Creek	MST021-avg	0.90			NS			0.32	0.50	U	-0.13	0.50	UJ	-0.14	0.50	U	NS			0	0.50	U	-0.35	0.50	UJ
	MST021	NA			NS			0.32	0.50	U	-0.13	0.50	UJ	-0.14	0.50	U	NS			0	0.50	U	NS		
	MST021-R1	NA			NA			NA			NA			NA			NA			NA			-0.32	0.50	UJ
	MST021-R2	NA			NA			NA			NA			NA			NA			NA			-0.33	0.50	UJ
	MST021-R3	NA			NA			NA			NA			NA			NA			NA			-0.39	0.50	UJ
	MST021-P1	0.88			NA			NA			NA			NA			NA			NA			NA		
	MST021-P1-D	0.89			NA			NA			NA			NA			NA			NA			NA		
	MST021-P2	1.4			NA			NA			NA			NA			NA			NA			NA		
	MST021-P3	0.39			NA			NA			NA			NA			0.34	0.50	UJ	NA			NA		
Blackfoot River, below Wooley Valley Creek	MST022-avg	NS			NS			NS			NS			NS			NS			0.35	0.50	U	NS		
	MST022-R1	NA			NA			NA			NA			NA			NA			0.18	0.50	U	NA		
	MST022-R2	NA			NA			NA			NA			NA			NA			0.43	0.50	U	NA		
	MST022-R3	NA			NA			NA			NA			NA			NA			0.45	0.50	U	NA		

Table 6: Riparian Vegetation Historical Analytical Data (mg/kg, dw) continued																									
		Selenium																							
Station		1999 [c]			2001[c]			2004 [p]																	
Name	ID	Sept.	RL	Flag	Sept.	RL	Flag	May	RL	Flag	June	RL	Flag	July	RL	Flag	Aug.	RL	Flag	Sept.	RL	Flag	Oct.	RL	Flag
Blackfoot River, below Dry Valley Creek, (1997 #20)	MST023-avg	1.9			NS			NS			NS			NS			NS			0.31	0.50	U	NS		
	MST023	NA			NS			NS			NS			NS			NS			0.31	0.50	U	NS		
	MST023-P1	1.9			NA			NA			NA			NA			NA			NA			NA		
	MST023-P2	0.86			NA			NA			NA			NA			NA			NA			NA		
	MST023-P2-D	1.2			NA			NA			NA			NA			NA			NA			NA		
	MST023-P3	2.7			NA			NA			NA			NA			NA			NA			NA		
Blackfoot River, above Dry Valley Creek, (1997 #19)	MST024	NS			NS			NS			NS			NS			NS			-0.099	0.50	U	NS		
Blackfoot River, below Wooley Range Ridge Creek	MST025	NS			NS			NS			NS			NS			NS			0.13	0.50	U	NS		
Blackfoot River,	MST026-avg	0.37			0.74			NS			NS			NS			NS			0.20	0.50	U	NS		
above Wooley Range Ridge Creek	MST026	NA			NA			NS			NS			NS			NS			0.20	0.50	U	NS		
	MST026-P1	NA			0.35			NA			NA			NA			NA			NA			NA		
	MST026-P1-D	NA			NA			NA			NA			NA			NA			NA			NA		
	MST026-P1-R1	0.94			NA			NA			NA			NA			NA			NA			NA		
	MST026-P1-R2	0.89			NA			NA			NA			NA			NA			NA			NA		
	MST026-P1-R3	0.96			NA			NA			NA			NA			NA			NA			NA		
	MST026-P2	-0.12	0.020	U	0.89			NA			NA			NA			NA			NA			NA		
	MST026-P3	0.29			0.99			NA			NA			NA			NA			NA			NA		
Blackfoot River, below Angus Creek	MST027-avg	NS			NS			0.24	0.50	U	0.064	0.50	UJ	-0.16	0.50	U	0.12	0.50	UJ	-0.12	0.50	U	-0.35	0.50	UJ
	MST027	NS			NS			0.24	0.50	U	0.064	0.50	UJ	NA			0.12	0.50	UJ	-0.12	0.50	U	-0.35	0.50	UJ
	MST027-R1	NA			NA			NA			NA			-0.17	0.50	U	NA			NA			NA		
	MST027-R2	NA			NA			NA			NA			-0.12	0.50	U	NA			NA			NA		
	MST027-R3	NA			NA			NA			NA			-0.19	0.50	U	NA			NA			NA		
Blackfoot River, above Diamond Creek Rd.	MST028	NS			NS			NS			NS			NS			NS			-0.22	0.50	U	NS		
Blackfoot River, above Spring Creek	MST029-avg	0.087	0.070<x<0.076	U	NS			NS			NS			NS			NS			-0.29	0.50	U	NS		
	MST029	NA			NS			NS			NS			NS			NS			-0.29	0.50	U	NS		
	MST029-P1	0.15			NA			NA			NA			NA			NA			NA			NA		
	MST029-P2	0.0034	0.020	U	NA			NA			NA			NA			NA			NA			NA		
	MST029-P3	0.059			NA			NA			NA			NA			NA			NA			NA		
Little Blackfoot River, below Long Valley Creek	MST043	NS			NS			NS			NS			NS			NS			0.32	0.50	U	NS		
Little Blackfoot River, immediately below Henry Mine, (1997 #24)	MST044	NS			NS			NS			NS			NS			NS			7.9			NS		
Little Blackfoot River, above Henry Creek, (1997 #23)	MST045	NS			NS			NS			NS			NS			NS			-0.45	0.50	U	NS		
Little Blackfoot River, below Lone Pine Creek	MST046	NS			NS			NS			NS			NS			NS			-0.52	0.50	U	NS		
Little Blackfoot River, above Lone Pine Creek	MST047	NS			NS			NS			NS			NS			NS			-0.63	0.50	U	NS		
Little Blackfoot River, below Reese Creek	MST048	NS			NS			NS			NS			NS			NS			-0.33	0.50	U	NS		
Little Blackfoot River, above Reese Creek	MST049-avg	NS			0.20			NS			NS			NS			NS			-0.32	0.50	U	NS		
	MST049	NS			NA			NS			NS			NS			NS			-0.32	0.50	U	NS		
	MST049-P1	NA			0.20			NA			NA			NA			NA			NA			NA		
	MST049-P2	NA			0.23			NA			NA			NA			NA			NA			NA		
	MST049-P3	NA			0.16			NA			NA			NA			NA			NA			NA		
Long Valley Creek, below Ballard Mine, (ponded area)	MST050	NS			NS			NS			NS			NS			NS			0.36	0.50	U	NS		
East Fork Long Valley Creek, below Henry Mine	MST051-avg	NS			NS			NS			NS			NS			NS			-0.54	0.50	U	NS		
	MST051-R1	NA			NA			NA			NA			NA			NA			-0.54	0.50	U	NA		
	MST051-R2	NA			NA			NA			NA			NA			NA			-0.54	0.50	U	NA		
	MST051-R3	NA			NA			NA			NA			NA			NA			-0.53	0.50	U	NA		
Henry Creek, above Little Blackfoot River	MST052	NS			NS			NS			NS			NS			NS			0.31	0.50	U	NS		

Table 6: Riparian Vegetation Historical Analytical Data (mg/kg, dw) continued																									
		Selenium																							
Station		1999 [c]			2001 [c]			2004 [c]																	
Name	ID	Sept.	RL	Flag	Sept.	RL	Flag	May	RL	Flag	June	RL	Flag	July	RL	Flag	Aug.	RL	Flag	Sept.	RL	Flag	Oct.	RL	Flag
Lone Pine Creek, above Little Blackfoot River	MST053-avg	NS			NS			NS			NS			NS			NS			-0.58	0.50	U	NS		
	MST053-R1	NA			NA			NA			NA			NA			NA			-0.57	0.50	U	NA		
	MST053-R2	NA			NA			NA			NA			NA			NA			-0.60	0.50	U	NA		
	MST053-R3	NA			NA			NA			NA			NA			NA			-0.58	0.50	U	NA		
Lone Pine Creek, above Spring-Fed Creek	MST054	NS			NS			NS			NS			NS			NS			-0.60	0.50	U	NS		
Lone Pine Creek, below Strip Mine Creek	MST055	NS			NS			NS			NS			NS			NS			-0.21	0.50	U	NS		
Lone Pine Creek, above Strip Mine Creek	MST056	NS			NS			NS			NS			NS			NS			-0.58	0.50	U	NS		
Lone Pine Creek, above Lone Pine Creek	MST057	NS			NS			NS			NS			NS			NS			0.50			NS		
Lone Pine Creek, above West Fork Lone Pine Creek	MST058	NS			NS			NS			NS			NS			NS			0.38	0.50	U	NS		
West Rasmussen. Ridge Creek #1, above Lone Pine Creek	MST059-avg	NS			NS			NS			NS			NS			NS			0.36	0.50	U	NS		
	MST059-R1	NA			NA			NA			NA			NA			NA			0.35	0.50	U	NA		
	MST059-R2	NA			NA			NA			NA			NA			NA			0.44	0.50	U	NA		
	MST059-R3	NA			NA			NA			NA			NA			NA			0.30	0.50	U	NA		
West Rasmussen. Ridge Creek #2, above Lone Pine Creek	MST060-avg	NS			NS			NS			NS			NS			NS			0.11	0.50	U	NS		
West Rasmussen. Ridge Creek #3, above Lone Pine Creek	MST061-avg	NS			NS			NS			NS			NS			NS			0.97			NS		
	MST061-R1	NA			NA			NA			NA			NA			NA			0.90			NA		
	MST061-R2	NA			NA			NA			NA			NA			NA			1.1			NA		
	MST061-R3	NA			NA			NA			NA			NA			NA			0.90			NA		
Strip Mine Creek, above Lone Pine Creek	MST062	NS			NS			NS			NS			NS			NS			-0.37	0.50	U	NS		
Strip Mine Creek, below Henry Mine	MST063	NS			NS			NS			NS			NS			NS			-0.29	0.50	U	NS		
West Fork Lone Pine Creek, above tributary	MST064	NS			NS			NS			NS			NS			NS			0.36	0.50	U	NS		
Ballard Creek, above Blackfoot River	MST066	NS			NS			NS			NS			NS			NS			0.46	0.50	U	NS		
Ballard Creek headwaters	MST067	NS			NS			NS			NS			NS			NS			0.60			NS		
West Fork Ballard Creek Headwaters	MST068	NS			NS			NS			NS			NS			NS			40			NS		
Short Creek, below Ballard Mine	MST069	NS			NS			NS			NS			NS			NS			3.1			NS		
Wooley Valley Creek, above Blackfoot River	MST088	NS			NS			NS			NS			NS			NS			0.31	0.50	U	NS		
Wooley Valley Creek, below North Fork Wooley Valley Creek	MST089	NS			NS			NS			NS			NS			NS			0.25	0.50	U	NS		
Wooley Valley Creek, above North Fork Wooley Valley Creek	MST090	NS			NS			NS			NS			NS			NS			-0.34	0.50	U	NS		
North Fork Wooley Valley Creek, above Wooley Valley Creek	MST092-avg	NS			NS			NS			NS			NS			NS			0.14	0.50	U	NS		
	MST092-R1	NA			NA			NA			NA			NA			NA			0.14	0.50	U	NA		
	MST092-R2	NA			NA			NA			NA			NA			NA			0.13	0.50	U	NA		
	MST092-R3	NA			NA			NA			NA			NA			NA			0.15	0.50	U	NA		
North Fork Wooley Valley Creek, above Ballard Mine	MST093	NS			NS			NS			NS			NS			NS			0.23	0.50	U	NS		
Spring-fed tributary #1 of North Fork Wooley Valley Creek, below Ballard Mine	MST094	NS			NS			NS			NS			NS			NS			0.33	0.50	U	NS		
Spring-fed tributary #2of North Fork Wooley Valley Creek, below Ballard Mine	MST095	NS			NS			NS			NS			NS			NS			13			NS		
Tributary of North Fork Wooley , below Ballard Mine	MST096	NS			NS			NS			NS			NS			NS			2.4			NS		
Caldwell Creek, below Phosphoria Formation outcrop	MST101	NS			NS			NS			NS			NS			NS			0.8			NS		
Angus Creek, above Blackfoot River	MST126	NS			NS			NS			NS			NS			NS			-0.27	0.50	U	NS		
Angus Creek, below No Name Creek	MST127-avg	0.27			NS			NS			NS			NS			NS			-0.27	0.50	U	NS		
	MST127	NA			NS			NS			NS			NS			NS			-0.27	0.50	U	NS		
	MST127-P1	0.37			NA			NA			NA			NA			NA			NA			NA		
	MST127-P2	0.056			NA			NA			NA			NA			NA			NA			NA		
	MST127-P3	0.33			NA			NA			NA			NA			NA			NA			NA		
Angus Creek, above Rasmussen Creek	MST128	NS			NS			NS			NS			NS			NS			-0.2	0.50	U	NS		

Table 6: Riparian Vegetation Historical Analytical Data (mg/kg, dw) continued																								
		Selenium																						
Station		1999 [c]			2001 [c]			2004 [p]																
Name	ID	Sept.	RL	Flag	Sept.	RL	Flag	May	RL	Flag	June	RL	Flag	July	RL	Flag	Aug.	RL	Flag	Sept.	RL	Flag	Oct.	RL	Flag
Angus Creek, R-B&M-10, below Wooley Valley Mine	MST129-avg	0.21			NS			NS			NS			NS			NS			-0.27	0.50	U	NS		
	MST129	NA			NS			NS			NS			NS			NS			-0.27	0.50	U	NS		
	MST129-P1	0.22			NA			NA			NA			NA			NA			NA			NA		
	MST129-P1-D	0.27			NA			NA			NA			NA			NA			NA			NA		
	MST129-P2	0.17			NA			NA			NA			NA			NA			NA			NA		
	MST129-P3	0.22			NA			NA			NA			NA			NA			NA			NA		
	MST129-P3-D	NA			NA			NA			NA			NA			NA			NA			NA		
Angus Creek, R-B&M-10, below Upper Angus Creek Reservoir	MST130-avg	2.9			1.0			NS			NS			NS			NS			-0.22	0.50	U	NS		
	MST130	NA			NA			NS			NS			NS			NS			-0.22	0.50	U	NS		
	MST130-P1	2.2			1.1			NA			NA			NA			NA			NA			NA		
	MST130-P2	NA			0.88			NA			NA			NA			NA			NA			NA		
	MST130-P2-D	0.046			NA			NA			NA			NA			NA			NA			NA		
	MST130-P3	3.6			1.1			NA			NA			NA			NA			NA			NA		
Rassmussen Creek, above Angus Creek	MST131	NS			NS			NS			NS			NS			NS			-0.24	0.50	U	NS		
Angus Creek, below Rasmussen Creek	MST132-avg	NS			NS			NS			NS			NS			NS			-0.22	0.50	U	NS		
	MST132-R1	NA			NA			NA			NA			NA			NA			-0.17	0.50	U	NA		
	MST132-R2	NA			NA			NA			NA			NA			NA			-0.23	0.50	U	NA		
	MST132-R3	NA			NA			NA			NA			NA			NA			-0.25	0.50	U	NA		
Rasmussen Creek, below Enoch Valley Mine	MST133	NS			NS			NS			NS			NS			NS			-0.31	0.50	U	NS		
Rasmussen Creek, below West Pond Creek	MST134	NS			NS			NS			NS			NS			NS			-0.15	0.50	U	NS		
Rasmussen Creek, above West Pond Creek	MST135	NS			NS			NS			NS			NS			NS			-0.37	0.50	U	NS		
Rasmussen Creek headwaters, near Enoch Valley Mine Shop Pond	MST136	NS			NS			NS			NS			NS			NS			0.18	0.50	U	NS		
East Fork Rasmussen Creek, above Rasmussen Creek	MST143	NS			NS			NS			NS			NS			NS			-0.37	0.50	U	NS		
West Pond Creek headwaters, below West Pond	MST144	NS			NS			NS			NS			NS			NS			1.6			NS		
East Fork Lone Pine Creek, below Wooley Valley Mine	MST226	NS			NS			NS			NS			NS			NS			0.19	0.50	U	NS		
Blackfoot River, below Spring Creek	MST229-avg	0.44			NS			NS			NS			NS			NS			-0.17	0.50	U	NS		
	MST229	NA			NS			NS			NS			NS			NS			-0.17	0.50	U	NS		
	MST229-P1	0.37			NA			NA			NA			NA			NA			NA			NA		
	MST229-P2	0.82			NA			NA			NA			NA			NA			NA			NA		
	MST229-P3-R1	0.019	0.020	U	NA			NA			NA			NA			NA			NA			NA		
	MST229-P3-R2	0.11			NA			NA			NA			NA			NA			NA			NA		
	MST229-P3-R3	0.13			NA			NA			NA			NA			NA			NA			NA		
Blackfoot River, above State Land Creek	MST230	NS			NS			NS			NS			NS			NS			0.13	0.50	U	NS		
Blackfoot River, below Woodall Mountain Creek	MST231	NS			NS			0.10	0.50	U	-0.37	0.50	UJ	-0.16	0.50	U	0.19	0.50	UJ	-0.032	0.50	U	-0.31	0.50	UJ
Blackfoot River, above Blackfoot Reservoir	MST232-avg	0.80			NS			NS			NS			NS			NS			0.22	0.50	U	NS		
	MST232-R1	NA			NA			NA			NA			NA			NA			0.24	0.50	U	NA		
	MST232-R2	NA			NA			NA			NA			NA			NA			0.30	0.50	U	NA		
	MST232-R3	NA			NA			NA			NA			NA			NA			0.11	0.50	U	NA		
	MST232-P1	0.31			NA			NA			NA			NA			NA			NA			NA		
	MST232-P2	1.2			NA			NA			NA			NA			NA			NA			NA		
	MST232-P2-D	NA			NA			NA			NA			NA			NA			NA			NA		
	MST232-P3	0.86			NA			NA			NA			NA			NA			NA			NA		
Little Blackfoot River, above Blackfoot Reservoir	MST234	NS			NS			NS			NS			NS			NS			-0.17	0.50	U	NS		

Table 6: Riparian Vegetation Historical Analytical Data (mg/kg, dw) continued																								
		Selenium																						
Station		1999[i]			2001[i]			2004[f]																
Name	ID	Sept.	RL	Flag	Sept.	RL	Flag	May	RL	Flag	June	RL	Flag	July	RL	Flag	Aug.	RL	Flag	Sept.	RL	Flag	Oct.	RL	Flag
Meadow Creek, above Blackfoot Reservoir	MST235-avg	NS			0.18			NS			NS			NS			NS			-0.32	0.50	U	NS		
	MST235	NS			NA			NS			NS			NS			NS			-0.32	0.50	U	NS		
	MST235-P1	NA			0.16			NA			NA			NA			NA			NA			NA		
	MST235-P2	NA			0.27			NA			NA			NA			NA			NA			NA		
	MST235-P2-D	NA			NA			NA			NA			NA			NA			NA			NA		
	MST235-P3	NA			0.097			NA			NA			NA			NA			NA			NA		
Stewart Creek, above Diamond Creek	MST236-avg	0.090			NS			NS			NS			NS			NS			0.099	0.50	U	NS		
	MST236	NA			NS			NS			NS			NS			NS			0.099	0.50	U	NS		
	MST236-P1	0.078			NA			NA			NA			NA			NA			NA			NA		
	MST236-P2	0.063			NA			NA			NA			NA			NA			NA			NA		
	MST236-P2-D	NA			NA			NA			NA			NA			NA			NA			NA		
	MST236-P3-R1	0.12			NA			NA			NA			NA			NA			NA			NA		
	MST236-P3-R2	0.10			NA			NA			NA			NA			NA			NA			NA		
	MST236-P3-R3	0.16			NA			NA			NA			NA			NA			NA			NA		
Timber Creek, above Diamond Creek	MST237-avg	0.094			0.25			NS			NS			NS			NS			-0.36	0.50	U	NS		
	MST237	NA			NS			NS			NS			NS			NS			-0.36	0.50	U	NS		
	MST237-P1	0.055			0.23			NA			NA			NA			NA			NA			NA		
	MST237-P2	0.14			NA			NA			NA			NA			NA			NA			NA		
	MST237-P2-D	NA			NA			NA			NA			NA			NA			NA			NA		
	MST237-P2-R1	NA			0.19			NA			NA			NA			NA			NA			NA		
	MST237-P2-R2	NA			0.19			NA			NA			NA			NA			NA			NA		
	MST237-P2-R3	NA			0.18			NA			NA			NA			NA			NA			NA		
	MST237-P3	NA			0.32			NA			NA			NA			NA			NA			NA		
	MST237-P3-R1	0.12			NA			NA			NA			NA			NA			NA			NA		
	MST237-P3-R2	0.066			NA			NA			NA			NA			NA			NA			NA		
	MST237-P3-R3	0.073			NA			NA			NA			NA			NA			NA			NA		
Little Blackfoot River, upstream of Henry cutoff road	MST254	NS			NS			NS			NS			NS			NS			-0.32	0.50	U	NS		
East Fork Rasmussen Creek headwaters	MST269	NS			NS			NS			NS			NS			NS			1.5			NS		
Long Valley Creek, downstream of station MST050	MST270	NS			NS			NS			NS			NS			NS			0.12	0.50	U	NS		
Long Valley Creek, below East Fork Long Valley Creek	MST271	NS			NS			NS			NS			NS			NS			0.33	0.50	U	NS		
Wooley Valley Creek, above Loadout Creek at road	MST272	NS			NS			NS			NS			NS			NS			-0.15	0.50	U	NS		
Wooley Valley Creek, above ponding and below MST089	MST273	NS			NS			NS			NS			NS			NS			0.38	0.50	U	NS		
West Fork Rasmussen Creek, above Rasmussen Creek	MST274	NS			NS			NS			NS			NS			NS			0.18	0.50	U	NS		
North Fork Lone Pine Creek, Northeast and above East Fork Lone Pine Creek	MST275	NS			NS			NS			NS			NS			NS			0.14	0.50	U	NS		
Tributary to West Fork Lone Pine Creek, above West Fork Lone Pine Creek	MST276	NS			NS			NS			NS			NS			NS			0.42	0.50	U	NS		
Spring-fed tributary, above Lone Pine Creek	MST277	NS			NS			NS			NS			NS			NS			-0.083	0.50	U	NS		

Table 6: Riparian Vegetation Historical Analytical Data (mg/kg, dw) continued																										
		Cadmium									Copper						Molybdenum						Zinc					
Station		1999 [c]			2001 [c]			2004 [p]			2001 [c]			2004 [p]			2001 [c]			2004 [p]			2001 [c]			2004 [p]		
Name	ID	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag
Henry Mine South Pit Overburden Dump Seep, (1997 #28)	MDS016	NS			NS			0.88			NS			2.2	9.3	U	NS			2.2		J	NS			42		
Henry Mine South Pit Overburden Dump Limestone Drain (formerly FD002) (1997 #29)	MDS022	NS			NS			0.41			NS			4.1	9.3	U	NS			4.0		J	NS			52		
Enoch Valley Mine West Dump Seep	MDS025	NS			NS			0.63			NS			2.8	9.3	U	NS			20		J	NS			30		
Enoch Valley Mine South Dump Seep	MDS026	NS			NS			0.39			NS			2.5	9.3	U	NS			0.66	0.78	UJ	NS			10		
Ballard Mine Pit #2 Upper Dump Seep	MDS030	NS			NS			0.18			NS			3.4	9.3	U	NS			0.33	0.78	UJ	NS			15		
Ballard Mine Pit #2 Lower Dump Seep South	MDS031	NS			NS			0.76			NS			6.3	9.3	U	NS			1.4		J	NS			34		
Ballard Mine Pit #2 Lower Dump Seep North	MDS032	NS			NS			0.20			NS			3.3	9.3	U	NS			0.10	0.78	UJ	NS			29		
Ballard Mine Goat Seep	MDS033	NS			NS			0.52			NS			2.4	9.3	U	NS			1.3		J	NS			36		
Ballard Mine Pit Well East	MMW001	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Ballard Mine Pit Well West	MMW002	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Henry Mine North Pit – South	MMW003	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Henry Mine North Pit – North	MMW004	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Enoch Valley Shop/Office Well	MPW019	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Henry Mine South Pit	MPW022	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Henry Mine Center Pit	MPW023	NS			NS			NS			NS			NS			NS			NS			NS			NS		
Upper Blackfoot Reservoir	MRV001	0.27			NS			NS			NS			NS			NS			NS			NS			NS		
Upper Blackfoot Reservoir	MRV002-avg	0.58			NS			NS			NS			NS			NS			NS			NS			NS		
	MRV002-P1	0.61			NA			NA			NA			NA			NA			NA			NA			NA		
	MRV002-P2-R1	0.57			NA			NA			NA			NA			NA			NA			NA			NA		
	MRV002-P2-R2	0.54			NA			NA			NA			NA			NA			NA			NA			NA		
	MRV002-P2-R3	0.52			NA			NA			NA			NA			NA			NA			NA			NA		
Upper Blackfoot Reservoir	MRV003-avg	0.20			NS			NS			NS			NS			NS			NS			NS			NS		
	MRV003	0.19			NS			NS			NS			NS			NS			NS			NS			NS		
	MRV003-D	0.20			NA			NA			NA			NA			NA			NA			NA			NA		
Upper Blackfoot Reservoir	MRV004-avg	0.22			NS			NS			NS			NS			NS			NS			NS			NS		
	MRV004	0.22			NS			NS			NS			NS			NS			NS			NS			NS		
	MRV004-D	NA			NA			NA			NA			NA			NA			NA			NA			NA		
Upper Blackfoot Reservoir	MRV005	0.66			NS			NS			NS			NS			NS			NS			NS			NS		
Lower Blackfoot Reservoir	MRV006-avg	1.3			NS			NS			NS			NS			NS			NS			NS			NS		
	MRV006	1.3			NS			NS			NS			NS			NS			NS			NS			NS		
	MRV006-D	NA			NA			NA			NA			NA			NA			NA			NA			NA		
Lower Blackfoot Reservoir	MRV007-avg	0.79			NS			NS			NS			NS			NS			NS			NS			NS		
	MRV007-P1-R1	0.44			NA			NA			NA			NA			NA			NA			NA			NA		
	MRV007-P1-R2	0.61			NA			NA			NA			NA			NA			NA			NA			NA		
	MRV007-P1-R3	0.80			NA			NA			NA			NA			NA			NA			NA			NA		
	MRV007-P2	0.96			NA			NA			NA			NA			NA			NA			NA			NA		
Lower Blackfoot Reservoir	MRV008	0.48			NS			NS			NS			NS			NS			NS			NS			NS		
Lower Blackfoot Reservoir	MRV009	1.5			NS			NS			NS			NS			NS			NS			NS			NS		
Lower Blackfoot Reservoir	MRV010	0.16			NS			NS			NS			NS			NS			NS			NS			NS		
Reservoir Delta at Blackfoot River	MRV011	0.46			NS			0.080			NS			1.4	9.3	U	NS			0.47	0.78	UJ	NS			21		
Reservoir Delta at Little Blackfoot River	MRV016	NS			NS			0.024	0.050	U	NS			1.1	9.3	U	NS			0.31	0.78	UJ	NS			49		
Reservoir Delta at Meadow Creek	MRV017	NS			NS			0.080			NS			5.0	9.3	U	NS			0.76	0.78	UJ	NS			38		
Enoch Valley Mine, Hedin Spring	MSG001	NS			NS			0.23			NS			4.1	9.3	U	NS			4.6		J	NS			24		
Henry Mine, Taylor Spring	MSG002	NS			NS			-0.035	0.050	U	NS			4.5	9.3	U	NS			1.9		J	NS			26		
Ballard Mine, Garden Hose Spring	MSG003	NS			NS			0.87			NS			1.6	9.3	U	NS			0.94		J	NS			15		
Ballard Mine, Holmgren Spring	MSG004	NS			NS			0.23			NS			3.1	9.3	U	NS			3.9		J	NS			24		

Table 6: Riparian Vegetation Historical Analytical Data (mg/kg, dw) continued																										
		Cadmium									Copper						Molybdenum						Zinc					
Station		1999 [c]			200 1[c]			2004 [p]			2001 [c]			2004 [p]			2001 [c]			2004 [p]			2001[c]			2004 [p]		
Name	ID	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag
Ballard Mine, Cattle Spring	MSG005-avg	NS			NS			0.26			NS			2.7	9.3	U	NS			0.77	0.78	UJ	NS			32		
	MSG005-R1	NA			NA			0.27			NA			3.0	9.3	U	NA			0.74	0.78	UJ	NA			31		
	MSG005-R2	NA			NA			0.26			NA			2.5	9.3	U	NA			0.75	0.78	UJ	NA			31		
	MSG005-R3	NA			NA			0.26			NA			2.7	9.3	U	NA			0.83		J	NA			34		
Ballard Mine Southeast Spring	MSG006	NS			NS			0.19			NS			1.9	9.3	U	NS			0.87		J	NS			19		
Ballard Mine Dredge Pond	MSP010	NS			NS			2.8			NS			5.3	9.3	U	NS			4.8		J	NS			58		
Ballard Mine Upper Elk Pond	MSP011	NS			NS			2.0			NS			2.6	9.3	U	NS			3.1		J	NS			55		
Ballard Mine Lower Elk Pond	MSP012	NS			NS			4.4			NS			4.5	9.3	U	NS			6.1		J	NS			130		
Ballard Mine Northeast Pond	MSP013	NS			NS			0.92			NS			2.8	9.3	U	NS			3.5		J	NS			19		
Henry Mine Henry Pond	MSP014	NS			NS			0.48			NS			5.5	9.3	U	NS			2.3		J	NS			48		
Henry Mine Smith Pond	MSP015	NS			NS			0.17			NS			3.0	9.3	U	NS			0.40	0.78	UJ	NS			120		
Henry Mine Center Henry Pond	MSP016	NS			NS			2.3			NS			2.6	9.3	U	NS			0.65	0.78	UJ	NS			35		
Enoch Valley Mine South Pond	MSP017	NS			NS			0.52			NS			2.1	9.3	U	NS			2.8		J	NS			27		
Enoch Valley Mine Keyhole Pond	MSP018	NS			NS			5.1			NS			2.8	9.3	U	NS			4.0		J	NS			330		
Enoch Valley Mine Bat Cave Pond	MSP019	NS			NS			0.38			NS			1.1	9.3	U	NS			0.85		J	NS			48		
Enoch Valley Mine West Pond	MSP020	NS			NS			2.4			NS			6.5	9.3	U	NS			0.75	0.78	UJ	NS			180		
Enoch Valley Mine Stock Pond	MSP021	NS			NS			0.98			NS			2.6	9.3	U	NS			1.2		J	NS			65		
Enoch Valley Mine Tipple Pond	MSP022	NS			NS			1.4			NS			3.8	9.3	U	NS			1.8		J	NS			43		
Enoch Valley Mine Haul Road Pond	MSP023	NS			NS			2.7			NS			3.6	9.3	U	NS			3.8		J	NS			48		
Enoch Valley Mine Shop Pond	MSP031	NS			NS			3.1			NS			8.5	9.3	U	NS			17		J	NS			73		
Henry Mine South Pit Pond	MSP055	NS			NS			2.9			NS			7.7	9.3	U	NS			5.5		J	NS			340		
Ballard Mine Pit #4 Stock Pond	MSP059	NS			NS			2.8			NS			5.6	9.3	U	NS			46		J	NS			92		
Ballard Mine Pit #6 Pond	MSP062	NS			NS			11			NS			4.1	9.3	U	NS			12		J	NS			79		
Blackfoot River, below Ballard Creek	MST019-avg	0.35			NS			0.63			NS			3.7	9.3	U	NS			0.88		J	NS			28		
	MST019	NA			NS			0.63			NS			3.7	9.3	U	NS			0.88		J	NS			28		
	MST019-P1	0.26			NA			NA			NA			NA			NA			NA			NA			NA		
	MST019-P2	0.15			NA			NA			NA			NA			NA			NA			NA			NA		
	MST019-P2-D	0.29			NA			NA			NA			NA			NA			NA			NA			NA		
	MST019-P3	0.56			NA			NA			NA			NA			NA			NA			NA			NA		
Blackfoot River, below State Land Creek	MST020-avg	NS			NS			0.093			NS			4.0	9.3	U	NS			0.52	0.78	UJ	NS			44		
	MST020-R1	NA			NA			0.090			NA			4.2	9.3	U	NA			0.53	0.78	UJ	NA			45		
	MST020-R2	NA			NA			0.090			NA			3.9	9.3	U	NA			0.51	0.78	UJ	NA			44		
	MST020-R3	NA			NA			0.10			NA			4.0	9.3	U	NA			0.53	0.78	UJ	NA			44		
Blackfoot River, below Trail Creek	MST021-avg	0.080	0.053<x<0.15	U	NS			0.030	0.050	U	NS			1.8	9.3	U	NS			0.57	0.78	UJ	NS			19		
	MST021	NA			NS			0.030	0.050	U	NS			1.8	9.3	U	NS			0.57	0.78	UJ	NS			19		
	MST021-R1	NA			NA			NA			NA			NA			NA			NA			NA			NA		
	MST021-R2	NA			NA			NA			NA			NA			NA			NA			NA			NA		
	MST021-R3	NA			NA			NA			NA			NA			NA			NA			NA			NA		
	MST021-P1	0.017	0.14	U	NA			NA			NA			NA			NA			NA			NA			NA		
	MST021-P1-D	NA			NA			NA			NA			NA			NA			NA			NA			NA		
	MST021-P2	0.16			NA			NA			NA			NA			NA			NA			NA			NA		
	MST021-P3	0.060	0.14	U	NA			NA			NA			NA			NA			NA			NA			NA		
Blackfoot River, below Wooley Valley Creek	MST022-avg	NS			NS			0.29			NS			4.4	9.3	U	NS			0.77	0.56<x<0.82	UJ	NS			25		
	MST022-R1	NA			NA			0.25			NA			4.2	9.3	U	NA			0.64	0.78	UJ	NA			21		
	MST022-R2	NA			NA			0.21			NA			4.5	9.3	U	NA			0.78		J	NA			20		
	MST022-R3	NA			NA			0.41			NA			4.6	9.3	U	NA			0.90		J	NA			34		

Table 6: Riparian Vegetation Historical Analytical Data (mg/kg, dw) continued																											
		Cadmium									Copper						Molybdenum						Zinc					
Station		1999 [c]			2001 [c]			2004 [p]			2001 [c]			2004 [p]			2001 [c]			2004 [p]			2001 [c]			2004 [p]		
Name	ID	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag
Blackfoot River, below Dry Valley Creek, (1997 #20)	MST023-avg	0.13	0.098<x<0.16	U	NS			0.16			NS			5.2	9.3	U	NS			2.1		J	NS			23		
	MST023	NA			NS			0.16			NS			5.2	9.3	U	NS			2.1		J	NS			23		
	MST023-P1	0.18			NA			NA			NA			NA			NA			NA			NA			NA		
	MST023-P2	0.17			NA			NA			NA			NA			NA			NA			NA			NA		
	MST023-P2-D	NA			NA			NA			NA			NA			NA			NA			NA			NA		
	MST023-P3	0.040	0.14	U	NA			NA			NA			NA			NA			NA			NA			NA		
Blackfoot River, above Dry Valley Creek, (1997 #19)	MST024	NS			NS			0.27			NS			6.3	9.3	U	NS			2.7		J	NS			37		
Blackfoot River, below Wooley Range Ridge Creek	MST025	NS			NS			0.40			NS			4.7	9.3	U	NS			1.4		J	NS			32		
Blackfoot River,	MST026-avg	0.29			0.18			0.23			4.4		J	3.0	9.3	U	0.63			2.1		J	27		J	21		
above Wooley Range Ridge Creek	MST026	NA			NA			0.23			NA			3.0	9.3	U	NA			2.1		J	NA			21		
	MST026-P1	NA			0.23			NA			3.9		J	NA			0.56			NA			30		J	NA		
	MST026-P1-D	NA			0.27			NA			3.9		J	NA			0.56			NA			31		J	NA		
	MST026-P1-R1	0.38			NA			NA			NA			NA			NA			NA			NA			NA		
	MST026-P1-R2	0.26			NA			NA			NA			NA			NA			NA			NA			NA		
	MST026-P1-R3	0.36			NA			NA			NA			NA			NA			NA			NA			NA		
	MST026-P2	0.22			0.17			NA			3.9		J	NA			0.61			NA			28		J	NA		
	MST026-P3	0.29			0.11			NA			5.4		J	NA			0.71			NA			22		J	NA		
Blackfoot River, below Angus Creek	MST027-avg	NS			NS			0.23			NS			2.7	9.3	U	NS			2.0		J	NS			16		
	MST027	NS			NS			0.23			NS			2.7	9.3	U	NS			2.0		J	NS			16		
	MST027-R1	NA			NA			NA			NA			NA			NA			NA			NA			NA		
	MST027-R2	NA			NA			NA			NA			NA			NA			NA			NA			NA		
	MST027-R3	NA			NA			NA			NA			NA			NA			NA			NA			NA		
Blackfoot River, above Diamond Creek Rd.	MST028	NS			NS			0.070			NS			2.3	9.3	U	NS			0.47	0.78	UJ	NS			11		
Blackfoot River, above Spring Creek	MST029-avg	-0.019	0.14	U	NS			0.13			NS			2.4	9.3	U	NS			0.88		J	NS			12		
	MST029	NA			NS			0.13			NS			2.4	9.3	U	NS			0.88		J	NS			12		
	MST029-P1	-0.080	0.14	U	NA			NA			NA			NA			NA			NA			NA			NA		
	MST029-P2	0.088			NA			NA			NA			NA			NA			NA			NA			NA		
	MST029-P3	-0.066	0.14	U	NA			NA			NA			NA			NA			NA			NA			NA		
Little Blackfoot River, below Long Valley Creek	MST043	NS			NS			0.026	0.050	U	NS			1.9	9.3	U	NS			1.6		J	NS			11		
Little Blackfoot River, immediately below Henry Mine, (1997 #24)	MST044	NS			NS			0.26			NS			4.0	9.3	U	NS			4.5		J	NS			31		
Little Blackfoot River, above Henry Creek, (1997 #23)	MST045	NS			NS			0.050			NS			4.9	9.3	U	NS			0.63	0.78	UJ	NS			36		
Little Blackfoot River, below Lone Pine Creek	MST046	NS			NS			0.37			NS			5.0	9.3	U	NS			1.8		J	NS			26		
Little Blackfoot River, above Lone Pine Creek	MST047	NS			NS			0.16			NS			4.2	9.3	U	NS			1.5		J	NS			38		
Little Blackfoot River, below Reese Creek	MST048	NS			NS			0.10			NS			4.5	9.3	U	NS			0.63	0.78 [4]	UJ	NS			44		
Little Blackfoot River, above Reese Creek	MST049-avg	NS			0.73			0.14			3.7		J	5.0	9.3	U	0.84			2.6		J	39		J	28		
	MST049	NS			NA			0.14			NA			5.0	9.3	U	NA			2.6		J	NA			28		
	MST049-P1	NA			0.14			NA			3.8		J	NA			0.85			NA			24		J	NA		
	MST049-P2	NA			1.8			NA			3.0		J	NA			0.71			NA			66		J	NA		
	MST049-P3	NA			0.24			NA			4.3		J	NA			0.95			NA			29		J	NA		
Long Valley Creek, below Ballard Mine, (ponded area)	MST050	NS			NS			1.3			NS			3.9	9.3	U	NS			2.5		J	NS			31		
East Fork Long Valley Creek, below Henry Mine	MST051-avg	NS			NS			0.50			NS			5.4	9.3	U	NS			3.5		J	NS			30		
	MST051-R1	NA			NA			0.52			NA			5.4	9.3	U	NA			3.6		J	NA			31		
	MST051-R2	NA			NA			0.50			NA			5.5	9.3	U	NA			3.4		J	NA			30		
	MST051-R3	NA			NA			0.49			NA			5.4	9.3	U	NA			3.5		J	NA			28		
Henry Creek, above Little Blackfoot River	MST052	NS			NS			0.82			NS			6.0	9.3	U	NS			19		J	NS			48		

Table 6: Riparian Vegetation Historical Analytical Data (mg/kg, dw) continued																											
		Cadmium									Copper						Molybdenum						Zinc					
Station		1999 [c]			2001 [c]			2004 [p]			2001 [c]			2004 [p]			2001[c]			2004 [p]			2001 [c]			2004 [p]		
Name	ID	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag
Lone Pine Creek, above Little Blackfoot River	MST053-avg	NS			NS			0.30			NS			5.9	9.3	U	NS			1.2		J	NS			35		
	MST053-R1	NA			NA			0.30			NA			4.8	9.3	U	NA			1.2		J	NA			35		
	MST053-R2	NA			NA			0.31			NA			7.3	9.3	U	NA			1.3		J	NA			35		
	MST053-R3	NA			NA			0.30			NA			5.6	9.3	U	NA			1.2		J	NA			34		
Lone Pine Creek, above Spring-Fed Creek	MST054	NS			NS			0.070			NS			5.5	9.3	U	NS			0.88		J	NS			25		
Lone Pine Creek, below Strip Mine Creek	MST055	NS			NS			0.040	0.050	U	NS			3.0	9.3	U	NS			0.48	0.78	UJ	NS			25		
Lone Pine Creek, above Strip Mine Creek	MST056	NS			NS			0.84			NS			4.5	9.3	U	NS			1.1		J	NS			35		
Lone Pine Creek, above Lone Pine Creek	MST057	NS			NS			-0.11	0.050	U	NS			3.7	9.3	U	NS			0.72	0.78	UJ	NS			36		
Lone Pine Creek, above West Fork Lone Pine Creek	MST058	NS			NS			-0.17	0.050	U	NS			4.2	9.3	U	NS			1.6		J	NS			19		
West Rasmussen. Ridge Creek #1, above Lone Pine Creek	MST059-avg	NS			NS			-0.11	0.050	U	NS			1.7	9.3	U	NS			5.5		J	NS			13		
	MST059-R1	NA			NA			-0.060	0.050	U	NA			1.8	9.3	U	NA			5.4		J	NA			13		
	MST059-R2	NA			NA			-0.15	0.050	U	NA			1.7	9.3	U	NA			5.6		J	NA			13		
	MST059-R3	NA			NA			-0.11	0.050	U	NA			1.6	9.3	U	NA			5.4		J	NA			12		
West Rasmussen. Ridge Creek #2, above Lone Pine Creek	MST060-avg	NS			NS			0.65			NS			1.3	9.3	U	NS			5.0		J	NS			36		
West Rasmussen. Ridge Creek #3, above Lone Pine Creek	MST061-avg	NS			NS			0.73			NS			3.3	9.3	U	NS			5.1		J	NS			44		
	MST061-R1	NA			NA			0.67			NA			3.3	9.3	U	NA			5.4		J	NA			45		
	MST061-R2	NA			NA			0.75			NA			3.5	9.3	U	NA			5.0		J	NA			46		
	MST061-R3	NA			NA			0.76			NA			3.1	9.3	U	NA			4.8		J	NA			42		
Strip Mine Creek, above Lone Pine Creek	MST062	NS			NS			0.033	0.050	U	NS			2.1	9.3	U	NS			1.2		J	NS			13		
Strip Mine Creek, below Henry Mine	MST063	NS			NS			0.39			NS			5.6	9.3	U	NS			1.2		J	NS			36		
West Fork Lone Pine Creek, above tributary	MST064	NS			NS			0.49			NS			6.6	9.3	U	NS			1.4		J	NS			45		
Ballard Creek, above Blackfoot River	MST066	NS			NS			0.37			NS			3.2	9.3	U	NS			1.3		J	NS			26		
Ballard Creek headwaters	MST067	NS			NS			0.26			NS			2.6	9.3	U	NS			0.47	0.78	UJ	NS			14		
West Fork Ballard Creek Headwaters	MST068	NS			NS			0.090			NS			1.2	9.3	U	NS			2.3		J	NS			29		
Short Creek, below Ballard Mine	MST069	NS			NS			0.34			NS			2.9	9.3	U	NS			0.54	0.78	UJ	NS			13		
Wooley Valley Creek, above Blackfoot River	MST088	NS			NS			0.56			NS			3.4	9.3	U	NS			1.4		J	NS			36		
Wooley Valley Creek, below North Fork Wooley Valley Creek	MST089	NS			NS			0.36			NS			3.9	9.3	U	NS			1.2		J	NS			38		
Wooley Valley Creek, above North Fork Wooley Valley Creek	MST090	NS			NS			0.24			NS			3.2	9.3	U	NS			1.2		J	NS			26		
North Fork Wooley Valley Creek, above Wooley Valley Creek	MST092-avg	NS			NS			0.53			NS			4.1	9.3	U	NS			2.3		J	NS			50		
	MST092-R1	NA			NA			0.54			NA			4.7	9.3	U	NA			2.2		J	NA			49		
	MST092-R2	NA			NA			0.53			NA			3.8	9.3	U	NA			2.1		J	NA			50		
	MST092-R3	NA			NA			0.51			NA			3.9	9.3	U	NA			2.7		J	NA			51		
North Fork Wooley Valley Creek, above Ballard Mine	MST093	NS			NS			0.35			NS			4.1	9.3	U	NS			1.6		J	NS			27		
Spring-fed tributary #1 of North Fork Wooley Valley Creek, below Ballard Mine	MST094	NS			NS			0.12			NS			4.3	9.3	U	NS			1.2		J	NS			17		
Spring-fed tributary #2of North Fork Wooley Valley Creek, below Ballard Mine	MST095	NS			NS			1.2			NS			3.5	9.3	U	NS			2.3		J	NS			36		
Tributary of North Fork Wooley , below Ballard Mine	MST096	NS			NS			0.22			NS			5.6	9.3	U	NS			0.60	0.78	UJ	NS			22		
Caldwell Creek, below Phosphoria Formation outcrop	MST101	NS			NS			0.60			NS			8.8	9.3	U	NS			2.4		J	NS			64		
Angus Creek, above Blackfoot River	MST126	NS			NS			0.39			NS			4.1	9.3	U	NS			1.6		J	NS			25		
Angus Creek, below No Name Creek	MST127-avg	0.19	0.15<x<0.19	U	NS			0.43			NS			3.9	9.3	U	NS			0.54	0.78	UJ	NS			29		
	MST127	NA			NS			0.43			NS			3.9	9.3	U	NS			0.54	0.78	UJ	NS			29		
	MST127-P1	0.18			NA			NA			NA			NA			NA			NA			NA			NA		
	MST127-P2	0.13	0.14	U	NA			NA			NA			NA			NA			NA			NA			NA		
	MST127-P3	0.26			NA			NA			NA			NA			NA			NA			NA			NA		
Angus Creek, above Rasmussen Creek	MST128	NS			NS			0.34			NS			4.6	9.3	U	NS			0.71	0.78	UJ	NS			31		

Table 6: Riparian Vegetation Historical Analytical Data (mg/kg, dw) continued																											
		Cadmium									Copper						Molybdenum						Zinc					
Station		1999 [c]			2001 [c]			2004 [p]			2001 [c]			2004 [p]			2001[c]			2004 [p]			2001[c]			2004 [p]		
Name	ID	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag
Angus Creek, R-B&M-10, below Wooley Valley Mine	MST129-avg	0.18			NS			0.11			NS			2.3	9.3	U	NS			3.3		J	NS			21		
	MST129	NA			NS			0.11			NS			2.3	9.3	U	NS			3.3		J	NS			21		
	MST129-P1	0.21			NA			NA			NA			NA			NA			NA			NA			NA		
	MST129-P1-D	NA			NA			NA			NA			NA			NA			NA			NA			NA		
	MST129-P2	0.17			NA			NA			NA			NA			NA			NA			NA			NA		
	MST129-P3	0.15			NA			NA			NA			NA			NA			NA			NA			NA		
	MST129-P3-D	0.15			NA			NA			NA			NA			NA			NA			NA			NA		
Angus Creek, R-B&M-10, below Upper Angus Creek Reservoir	MST130-avg	0.42			0.28			0.73			5.8		J	4.2	9.3	U	0.51			0.59	0.78	UJ	30		J	31		
	MST130	NA			NA			0.73			NA			4.2	9.3	U	NA			0.59	0.78	UJ	NA			31		
	MST130-P1	0.38			0.28			NA			5.8		J	NA			0.72			NA			31		J	NA		
	MST130-P2	NA			0.18			NA			4.2		J	NA			0.35			NA			23		J	NA		
	MST130-P2-D	0.50			0.18			NA			4.3		J	NA			0.35			NA			26		J	NA		
	MST130-P3	0.38			0.37			NA			7.4		J	NA			0.45			NA			33		J	NA		
Rassmussen Creek, above Angus Creek	MST131	NS			NS			0.45			NS			4.5	9.3	U	NS			0.72	0.78	UJ	NS			33		
Angus Creek, below Rasmussen Creek	MST132-avg	NS			NS			0.42			NS			5.2	9.3	U	NS			1.1		J	NS			29		
	MST132-R1	NA			NA			0.43			NA			7.8	9.3	U	NA			1.1		J	NA			NA		
	MST132-R2	NA			NA			0.41			NA			4.0	9.3	U	NA			1.1		J	NA			NA		
	MST132-R3	NA			NA			0.42			NA			3.7	9.3	U	NA			1.1		J	NA			NA		
Rasmussen Creek, below Enoch Valley Mine	MST133	NS			NS			0.24			NS			2.9	9.3	U	NS			0.53	0.78	UJ	NS			16		
Rasmussen Creek, below West Pond Creek	MST134	NS			NS			0.20			NS			2.5	9.3	U	NS			1.2		J	NS			22		
Rasmussen Creek, above West Pond Creek	MST135	NS			NS			0.14			NS			1.5	9.3	U	NS			0.70	0.78	UJ	NS			17		
Rasmussen Creek headwaters, near Enoch Valley Mine Shop Pond	MST136	NS			NS			0.58			NS			3.7	9.3	U	NS			1.1		J	NS			36		
East Fork Rasmussen Creek, above Rasmussen Creek	MST143	NS			NS			0.16			NS			1.7	9.3	U	NS			0.48	0.78	UJ	NS			28		
West Pond Creek headwaters, below West Pond	MST144	NS			NS			0.33			NS			2.6	9.3	U	NS			0.74	0.78	UJ	NS			16		
East Fork Lone Pine Creek, below Wooley Valley Mine	MST226	NS			NS			0.73			NS			5.2	9.3	U	NS			1.2		J	NS			40		
Blackfoot River, below Spring Creek	MST229-avg	-0.83	0.14	U	NS			0.060			NS			2.5	9.3	U	NS			0.27	0.78	UJ	NS			16		
	MST229	NA			NS			0.060			NS			2.5	9.3	U	NS			0.27	0.78	UJ	NS			16		
	MST229-P1	-1.0	0.14	U	NA			NA			NA			NA			NA			NA			NA			NA		
	MST229-P2	-0.63	0.14	U	NA			NA			NA			NA			NA			NA			NA			NA		
	MST229-P3-R1	-0.86	0.14	U	NA			NA			NA			NA			NA			NA			NA			NA		
	MST229-P3-R2	-0.78	0.14	U	NA			NA			NA			NA			NA			NA			NA			NA		
	MST229-P3-R3	-0.93	0.14	U	NA			NA			NA			NA			NA			NA			NA			NA		
Blackfoot River, above State Land Creek	MST230	NS			NS			0.060			NS			3.6	9.3	U	NS			0.46	0.78	UJ	NS			28		
Blackfoot River, below Woodall Mountain Creek	MST231	NS			NS			0.037	0.050	U	NS			6.0	9.3	U	NS			1.3		J	NS			38		
Blackfoot River, above Blackfoot Reservoir	MST232-avg	0.022	0.14	U	NS			0.055	0.040<x<0.057	U	NS			2.5	9.3	U	NS			2.1		J	NS			9.3		
	MST232-R1	NA			NA			0.070			NA			1.7	9.3	U	NA			1.9		J	NA			9.0		
	MST232-R2	NA			NA			0.050			NA			4.3	9.3	U	NA			2.2		J	NA			10		
	MST232-R3	NA			NA			0.045	0.050	U	NA			1.6	9.3	U	NA			2.1		J	NA			9.0		
	MST232-P1	0.038	0.14	U	NA			NA			NA			NA			NA			NA			NA			NA		
	MST232-P2	0.0044	0.14	U	NA			NA			NA			NA			NA			NA			NA			NA		
	MST232-P2-D	-0.061	0.14	U	NA			NA			NA			NA			NA			NA			NA			NA		
	MST232-P3	-0.00030	0.14	U	NA			NA			NA			NA			NA			NA			NA			NA		
Little Blackfoot River, above Blackfoot Reservoir	MST234	NS			NS			0.15			NS			2.9	9.3	U	NS			3.3		J	NS			29		

Table 6: Riparian Vegetation Historical Analytical Data (mg/kg, dw) continued																												
		Cadmium									Copper						Molybdenum						Zinc					
Station		1999[i]			2001[i]			2004[p]			2001[i]			2004[p]			2001[i]			2004[p]			2001[i]			2004[p]		
Name	ID	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag
Meadow Creek, above Blackfoot Reservoir	MST235-avg	NS			0.089			0.11			4.3		J	1.8	9.3	U	0.89			0.68	0.78	UJ	23		J	12		
	MST235	NS			NA			0.11			NA			1.8	9.3	U	NA			0.68	0.78	UJ	NA			12		
	MST235-P1	NA			0.089			NA			4.0		J	NA			0.79			NA			23		J	NA		
	MST235-P2	NA			0.073			NA			4.0		J	NA			0.76			NA			21		J	NA		
	MST235-P2-D	NA			0.081			NA			4.0		J	NA			0.78			NA			20		J	NA		
	MST235-P3	NA			0.10			NA			5.0		J	NA			1.1			NA			24		J	NA		
Stewart Creek, above Diamond Creek	MST236-avg	0.76			NS			0.90			NS			5.1	9.3	U	NS			0.94		J	NS			52		
	MST236	NA			NS			0.90			NS			5.1	9.3	U	NS			0.94		J	NS			52		
	MST236-P1	0.47			NA			NA			NA			NA			NA			NA			NA			NA		
	MST236-P2	0.42			NA			NA			NA			NA			NA			NA			NA			NA		
	MST236-P2-D	0.31			NA			NA			NA			NA			NA			NA			NA			NA		
	MST236-P3-R1	1.6			NA			NA			NA			NA			NA			NA			NA			NA		
	MST236-P3-R2	1.5			NA			NA			NA			NA			NA			NA			NA			NA		
	MST236-P3-R3	1.4			NA			NA			NA			NA			NA			NA			NA			NA		
Timber Creek, above Diamond Creek	MST237-avg	0.22			0.28			0.34			4.3		J	2.3	9.3	U	0.71			0.72	0.78	UJ	29		J	28		
	MST237	NA			NA			0.34			NA			2.3	9.3	U	NA			0.72	0.78	UJ	NA			28		
	MST237-P1	0.31			0.27			NA			4.3		J	NA			0.71			NA			29		J	NA		
	MST237-P2	0.16			NA			NA			NA			NA			NA			NA			NA			NA		
	MST237-P2-D	0.20			NA			NA			NA			NA			NA			NA			NA			NA		
	MST237-P2-R1	NA			0.21			NA			4.0		J	NA			0.68			NA			21		J	NA		
	MST237-P2-R2	NA			0.20			NA			4.1		J	NA			0.73			NA			21		J	NA		
	MST237-P2-R3	NA			0.21			NA			4.1		J	NA			0.70			NA			21		J	NA		
	MST237-P3	NA			0.35			NA			4.6		J	NA			0.71			NA			37		J	NA		
	MST237-P3-R1	0.059	0.14	U	NA			NA			NA			NA			NA			NA			NA			NA		
	MST237-P3-R2	0.29			NA			NA			NA			NA			NA			NA			NA			NA		
	MST237-P3-R3	0.18			NA			NA			NA			NA			NA			NA			NA			NA		
Little Blackfoot River, upstream of Henry cutoff road	MST254	NS			NS			0.12			NS			2.9	9.3	U	NS			0.91		J	NS			23		
East Fork Rasmussen Creek headwaters	MST269	NS			NS			1.5			NS			4.3	9.3	U	NS			1.2		J	NS			130		
Long Valley Creek, downstream of station MST050	MST270	NS			NS			0.40			NS			2.2	9.3	U	NS			1.4		J	NS			22		
Long Valley Creek, below East Fork Long Valley Creek	MST271	NS			NS			0.042	0.050	U	NS			3.3	9.3	U	NS			0.71	0.78	UJ	NS			12		
Wooley Valley Creek, above Loadout Creek at road	MST272	NS			NS			0.38			NS			3.6	9.3	U	NS			2.4		J	NS			16		
Wooley Valley Creek, above ponding and below MST089	MST273	NS			NS			0.18			NS			4.5	9.3	U	NS			0.78		J	NS			37		
West Fork Rasmussen Creek, above Rasmussen Creek	MST274	NS			NS			0.45			NS			3.2	9.3	U	NS			1.3		J	NS			33		
North Fork Lone Pine Creek, Northeast and above East Fork Lone Pine Creek	MST275	NS			NS			0.22			NS			4.7	9.3	U	NS			1.5		J	NS			26		
Tributary to West Fork Lone Pine Creek, above West Fork Lone Pine Creek	MST276	NS			NS			0.70			NS			6.5	9.3	U	NS			1.2		J	NS			38		
Spring-fed tributary, above Lone Pine Creek	MST277	NS			NS			0.18			NS			2.4	9.3	U	NS			1.3		J	NS			22		

Table 6: Riparian Vegetation Historical Analytical Data (mg/kg, dw) continued																									
		Aluminum			Antimony			Arsenic			Barium			Beryllium			Chromium			Lead			Manganese		
Station		2001 [c]			2001 [c]			2001[c]			2001 [c]			2001 [c]			2001 [c]			2001c			2001 [c]		
Name	ID	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag
Henry Mine South Pit Overburden Dump Seep, (1997 #28)	MDS016	NS			NS			NS			NS			NS			NS			NS			NS		
Henry Mine South Pit Overburden Dump Limestone Drain (formerly FD002) (1997 #29)	MDS022	NS			NS			NS			NS			NS			NS			NS			NS		
Enoch Valley Mine West Dump Seep	MDS025	NS			NS			NS			NS			NS			NS			NS			NS		
Enoch Valley Mine South Dump Seep	MDS026	NS			NS			NS			NS			NS			NS			NS			NS		
Ballard Mine Pit #2 Upper Dump Seep	MDS030	NS			NS			NS			NS			NS			NS			NS			NS		
Ballard Mine Pit #2 Lower Dump Seep South	MDS031	NS			NS			NS			NS			NS			NS			NS			NS		
Ballard Mine Pit #2 Lower Dump Seep North	MDS032	NS			NS			NS			NS			NS			NS			NS			NS		
Ballard Mine Goat Seep	MDS033	NS			NS			NS			NS			NS			NS			NS			NS		
Ballard Mine Pit Well East	MMW001	NS			NS			NS			NS			NS			NS			NS			NS		
Ballard Mine Pit Well West	MMW002	NS			NS			NS			NS			NS			NS			NS			NS		
Henry Mine North Pit – South	MMW003	NS			NS			NS			NS			NS			NS			NS			NS		
Henry Mine North Pit – North	MMW004	NS			NS			NS			NS			NS			NS			NS			NS		
Enoch Valley Shop/Office Well	MPW019	NS			NS			NS			NS			NS			NS			NS			NS		
Henry Mine South Pit	MPW022	NS			NS			NS			NS			NS			NS			NS			NS		
Henry Mine Center Pit	MPW023	NS			NS			NS			NS			NS			NS			NS			NS		
Reservoir Delta at Blackfoot River	MRV011	NS			NS			NS			NS			NS			NS			NS			NS		
Reservoir Delta at Little Blackfoot River	MRV016	NS			NS			NS			NS			NS			NS			NS			NS		
Reservoir Delta at Meadow Creek	MRV017	NS			NS			NS			NS			NS			NS			NS			NS		
Enoch Valley Mine, Hedin Spring	MSG001	NS			NS			NS			NS			NS			NS			NS			NS		
Henry Mine, Taylor Spring	MSG002	NS			NS			NS			NS			NS			NS			NS			NS		
Ballard Mine, Garden Hose Spring	MSG003	NS			NS			NS			NS			NS			NS			NS			NS		
Ballard Mine, Holmgren Spring	MSG004	NS			NS			NS			NS			NS			NS			NS			NS		
Ballard Mine, Cattle Spring	MSG005-avg	NS			NS			NS			NS			NS			NS			NS			NS		
	MSG005-R1	NA			NA			NA			NA			NA			NA			NA			NA		
	MSG005-R2	NA			NA			NA			NA			NA			NA			NA			NA		
	MSG005-R3	NA			NA			NA			NA			NA			NA			NA			NA		
Ballard Mine Southeast Spring	MSG006	NS			NS			NS			NS			NS			NS			NS			NS		
Ballard Mine Dredge Pond	MSP010	NS			NS			NS			NS			NS			NS			NS			NS		
Ballard Mine Upper Elk Pond	MSP011	NS			NS			NS			NS			NS			NS			NS			NS		
Ballard Mine Lower Elk Pond	MSP012	NS			NS			NS			NS			NS			NS			NS			NS		
Ballard Mine Northeast Pond	MSP013	NS			NS			NS			NS			NS			NS			NS			NS		
Henry Mine Henry Pond	MSP014	NS			NS			NS			NS			NS			NS			NS			NS		
Henry Mine Smith Pond	MSP015	NS			NS			NS			NS			NS			NS			NS			NS		
Henry Mine Center Henry Pond	MSP016	NS			NS			NS			NS			NS			NS			NS			NS		
Enoch Valley Mine South Pond	MSP017	NS			NS			NS			NS			NS			NS			NS			NS		
Enoch Valley Mine Keyhole Pond	MSP018	NS			NS			NS			NS			NS			NS			NS			NS		
Enoch Valley Mine Bat Cave Pond	MSP019	NS			NS			NS			NS			NS			NS			NS			NS		
Enoch Valley Mine West Pond	MSP020	NS			NS			NS			NS			NS			NS			NS			NS		
Enoch Valley Mine Stock Pond	MSP021	NS			NS			NS			NS			NS			NS			NS			NS		
Enoch Valley Mine Tipple Pond	MSP022	NS			NS			NS			NS			NS			NS			NS			NS		
Enoch Valley Mine Haul Road Pond	MSP023	NS			NS			NS			NS			NS			NS			NS			NS		
Enoch Valley Mine Shop Pond	MSP031	NS			NS			NS			NS			NS			NS			NS			NS		
Henry Mine South Pit Pond	MSP055	NS			NS			NS			NS			NS			NS			NS			NS		
Ballard Mine Pit #4 Stock Pond	MSP059	NS			NS			NS			NS			NS			NS			NS			NS		
Ballard Mine Pit #6 Pond	MSP062	NS			NS			NS			NS			NS			NS			NS			NS		
Blackfoot River, below Ballard Creek	MST019	NS			NS			NS			NS			NS			NS			NS			NS		

Table 6: Riparian Vegetation Historical Analytical Data (mg/kg, dw) continued																									
		Aluminum			Antimony			Arsenic			Barium			Beryllium			Chromium			Lead			Manganese		
Station		2001[1]			2001[c]			2001[c]			2001[c]			2001[c]			2001[c]			2001[c]			2001[c]		
Name	ID	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag
Blackfoot River, below State Land Creek	MST020-avg	NS			NS			NS			NS			NS			NS			NS			NS		
	MST020-R1	NA			NA			NA			NA			NA			NA			NA			NA		
	MST020-R2	NA			NA			NA			NA			NA			NA			NA			NA		
	MST020-R3	NA			NA			NA			NA			NA			NA			NA			NA		
Blackfoot River, below Trail Creek	MST021	NS			NS			NS			NS			NS			NS			NS			NS		
Blackfoot River, below Wooley Valley Creek	MST022-avg	NS			NS			NS			NS			NS			NS			NS			NS		
	MST022-R1	NA			NA			NA			NA			NA			NA			NA			NA		
	MST022-R2	NA			NA			NA			NA			NA			NA			NA			NA		
	MST022-R3	NA			NA			NA			NA			NA			NA			NA			NA		
Blackfoot River, below Dry Valley Creek, (1997 #20)	MST023	NS			NS			NS			NS			NS			NS			NS			NS		
Blackfoot River, above Dry Valley Creek, (1997 #19)	MST024	NS			NS			NS			NS			NS			NS			NS			NS		
Blackfoot River, below Wooley Range Ridge Creek	MST025	NS			NS			NS			NS			NS			NS			NS			NS		
Blackfoot River, above Wooley Range Ridge Creek	MST026-avg	220			0.092	0.050<x<0.12	U	0.21			53			0.013	0.011<x<0.014	U	1.2		J	0.53			62		J
	MST026	NA			NA			NA			NA			NA			NA			NA			NA		
	MST026-P1	290			0.029	0.10	U	0.20			52			0.0057	0.010	U	0.94		J	0.44			50		J
	MST026-P1-D	290			0.030	0.10	U	0.21			53			0.0076	0.010	U	1.1		J	0.39			51		J
	MST026-P2	260			0.15			0.23			73			0.016			1.2		J	0.56			100		J
	MST026-P3	120			0.097	0.10	U	0.19			34			0.017			1.5		J	0.60			37		J
Blackfoot River, below Angus Creek	MST027	NS			NS			NS			NS			NS			NS			NS			NS		
Blackfoot River, above Diamond Creek Rd.	MST028	NS			NS			NS			NS			NS			NS			NS			NS		
Blackfoot River, above Spring Creek	MST029	NS			NS			NS			NS			NS			NS			NS			NS		
Little Blackfoot River, below Long Valley Creek	MST043	NS			NS			NS			NS			NS			NS			NS			NS		
Little Blackfoot River, immediately below Henry Mine, (1997 #24)	MST044	NS			NS			NS			NS			NS			NS			NS			NS		
Little Blackfoot River, above Henry Creek, (1997 #23)	MST045	NS			NS			NS			NS			NS			NS			NS			NS		
Little Blackfoot River, below Lone Pine Creek	MST046	NS			NS			NS			NS			NS			NS			NS			NS		
Little Blackfoot River, above Lone Pine Creek	MST047	NS			NS			NS			NS			NS			NS			NS			NS		
Little Blackfoot River, below Reese Creek	MST048	NS			NS			NS			NS			NS			NS			NS			NS		
Little Blackfoot River, above Reese Creek	MST049-avg	320			0.22			0.26			62			0.017	0.015<x<0.021	U	4.2		J	0.80			330		J
	MST049	NA			NA			NA			NA			NA			NA			NA			NA		
	MST049-P1	210			0.22			0.24			78			0.0057	0.010	U	1.5		J	0.67			610		J
	MST049-P2	480			0.24			0.32			64			0.044			9.9		J	1.0			260		J
	MST049-P3	270			0.21			0.21			44			0.0043	0.010	U	1.9		J	0.72			120		J
Long Valley Creek, below Ballard Mine, (ponded area)	MST050	NS			NS			NS			NS			NS			NS			NS			NS		
East Fork Long Valley Creek, below Henry Mine	MST051-avg	NS			NS			NS			NS			NS			NS			NS			NS		
	MST051-R1	NA			NA			NA			NA			NA			NA			NA			NA		
	MST051-R2	NA			NA			NA			NA			NA			NA			NA			NA		
	MST051-R3	NA			NA			NA			NA			NA			NA			NA			NA		
Henry Creek, above Little Blackfoot River	MST052	NS			NS			NS			NS			NS			NS			NS			NS		
Lone Pine Creek, above Little Blackfoot River	MST053-avg	NS			NS			NS			NS			NS			NS			NS			NS		
	MST053-R1	NA			NA			NA			NA			NA			NA			NA			NA		
	MST053-R2	NA			NA			NA			NA			NA			NA			NA			NA		
	MST053-R3	NA			NA			NA			NA			NA			NA			NA			NA		
Lone Pine Creek, above Spring-Fed Creek	MST054	NS			NS			NS			NS			NS			NS			NS			NS		
Lone Pine Creek, below Strip Mine Creek	MST055	NS			NS			NS			NS			NS			NS			NS			NS		
Lone Pine Creek, above Strip Mine Creek	MST056	NS			NS			NS			NS			NS			NS			NS			NS		
Lone Pine Creek, above Lone Pine Creek	MST057	NS			NS			NS			NS			NS			NS			NS			NS		
Lone Pine Creek, above West Fork Lone Pine Creek	MST058	NS			NS			NS			NS			NS			NS			NS			NS		

Table 6: Riparian Vegetation Historical Analytical Data (mg/kg, dw) continued

Station		Aluminum			Antimony			Arsenic			Barium			Beryllium			Chromium			Lead			Manganese		
		2001 [P]			2001 [P]			2001 [P]			2001 [P]			2001 [P]			2001 [P]			2001 [P]			2001 [P]		
Name	ID	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag
West Rasmussen. Ridge Creek #1, above Lone Pine Creek	MST059-avg	NS			NS			NS			NS			NS			NS			NS			NS		
	MST059-R1	NA			NA			NA			NA			NA			NA			NA			NA		
	MST059-R2	NA			NA			NA			NA			NA			NA			NA			NA		
	MST059-R3	NA			NA			NA			NA			NA			NA			NA			NA		
West Rasmussen. Ridge Creek #2, above Lone Pine Creek	MST060	NS			NS			NS			NS			NS			NS			NS			NS		
West Rasmussen. Ridge Creek #3, above Lone Pine Creek	MST061-avg	NS			NS			NS			NS			NS			NS			NS			NS		
	MST061-R1	NA			NA			NA			NA			NA			NA			NA			NA		
	MST061-R2	NA			NA			NA			NA			NA			NA			NA			NA		
	MST061-R3	NA			NA			NA			NA			NA			NA			NA			NA		
Strip Mine Creek, above Lone Pine Creek	MST062	NS			NS			NS			NS			NS			NS			NS			NS		
Strip Mine Creek, below Henry Mine	MST063	NS			NS			NS			NS			NS			NS			NS			NS		
West Fork Lone Pine Creek, above tributary	MST064	NS			NS			NS			NS			NS			NS			NS			NS		
Ballard Creek, above Blackfoot River	MST066	NS			NS			NS			NS			NS			NS			NS			NS		
Ballard Creek headwaters	MST067	NS			NS			NS			NS			NS			NS			NS			NS		
West Fork Ballard Creek Headwaters	MST068	NS			NS			NS			NS			NS			NS			NS			NS		
Short Creek, below Ballard Mine	MST069	NS			NS			NS			NS			NS			NS			NS			NS		
Wooley Valley Creek, above Blackfoot River	MST088	NS			NS			NS			NS			NS			NS			NS			NS		
Wooley Valley Creek, below North Fork Wooley Valley Creek	MST089	NS			NS			NS			NS			NS			NS			NS			NS		
Wooley Valley Creek, above North Fork Wooley Valley Creek	MST090	NS			NS			NS			NS			NS			NS			NS			NS		
North Fork Wooley Valley Creek, above Wooley Valley Creek	MST092-avg	NS			NS			NS			NS			NS			NS			NS			NS		
	MST092-R1	NA			NA			NA			NA			NA			NA			NA			NA		
	MST092-R2	NA			NA			NA			NA			NA			NA			NA			NA		
	MST092-R3	NA			NA			NA			NA			NA			NA			NA			NA		
North Fork Wooley Valley Creek, above Ballard Mine	MST093	NS			NS			NS			NS			NS			NS			NS			NS		
Spring-fed tributary #1 of North Fork Wooley Valley Creek, below Ballard Mine	MST094	NS			NS			NS			NS			NS			NS			NS			NS		
Spring-fed tributary #2of North Fork Wooley Valley Creek, below Ballard Mine	MST095	NS			NS			NS			NS			NS			NS			NS			NS		
Tributary of North Fork Wooley , below Ballard Mine	MST096	NS			NS			NS			NS			NS			NS			NS			NS		
Caldwell Creek, below Phosphoria Formation outcrop	MST101	NS			NS			NS			NS			NS			NS			NS			NS		
Angus Creek, above Blackfoot River	MST126	NS			NS			NS			NS			NS			NS			NS			NS		
Angus Creek, below No Name Creek	MST127	NS			NS			NS			NS			NS			NS			NS			NS		
Angus Creek, above Rasmussen Creek	MST128	NS			NS			NS			NS			NS			NS			NS			NS		
Angus Creek, R-B&M-10, below Wooley Valley Mine	MST129	NS			NS			NS			NS			NS			NS			NS			NS		
Angus Creek,	MST130-avg	240			0.079	0.10	U	0.20			28			0.017			0.96		J	0.42			240		J
R-B&M-10, below Upper Angus Creek Reservoir	MST130	NA			NA			NA			NA			NA			NA			NA			NA		
	MST130-P1	280			0.045	0.10	U	0.20			32			0.020			1.1		J	0.35			26		J
	MST130-P2	280			0.020	0.10	U	0.23			32			0.016			0.97		J	0.33			420		J
	MST130-P2-D	260			0.021	0.10	U	0.22			30			0.012			0.93		J	0.33			450		J
	MST130-P3	170			0.17			0.17			20			0.016			0.83		J	0.58			200		J
Rassmussen Creek, above Angus Creek	MST131	NS			NS			NS			NS			NS			NS			NS			NS		
Angus Creek, below Rasmussen Creek	MST132-avg	NS			NS			NS			NS			NS			NS			NS			NS		
	MST132	NS			NS			NS			NS			NS			NS			NS			NS		
	MST132-R1	NA			NA			NA			NA			NA			NA			NA			NA		
	MST132-R2	NA			NA			NA			NA			NA			NA			NA			NA		
	MST132-R3	NA			NA			NA			NA			NA			NA			NA			NA		
Rasmussen Creek, below Enoch Valley Mine	MST133	NS			NS			NS			NS			NS			NS			NS			NS		
Rasmussen Creek, below West Pond Creek	MST134	NS			NS			NS			NS			NS			NS			NS			NS		
Rasmussen Creek, above West Pond Creek	MST135	NS			NS			NS			NS			NS			NS			NS			NS		
Rasmussen Creek headwaters, near Enoch Valley Mine Shop Pond	MST136	NS			NS			NS			NS			NS			NS			NS			NS		

Table 6: Riparian Vegetation Historical Analytical Data (mg/kg, dw) continued

Station		Aluminum			Antimony			Arsenic			Barium			Beryllium			Chromium			Lead			Manganese		
		2001 [P]			2001 [P]			2001 [P]			2001 [P]			2001 [P]			2001 [P]			2001 [P]			2001 [P]		
Name	ID	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag
East Fork Rasmussen Creek, above Rasmussen Creek	MST143	NS			NS			NS			NS			NS			NS			NS			NS		
West Pond Creek headwaters, below West Pond	MST144	NS			NS			NS			NS			NS			NS			NS			NS		

East Fork Lone Pine Creek, below Wooley Valley Mine	MST226	NS			NS			NS			NS			NS			NS			NS			NS		
Blackfoot River, below Spring Creek	MST229	NS			NS			NS			NS			NS			NS			NS			NS		
Blackfoot River, above State Land Creek	MST230	NS			NS			NS			NS			NS			NS			NS			NS		
Blackfoot River, below Woodall Mountain Creek	MST231	NS			NS			NS			NS			NS			NS			NS			NS		
Blackfoot River, above Blackfoot Reservoir	MST232-avg	NS			NS			NS			NS			NS			NS			NS			NS		
	MST232-R1	NA			NA			NA			NA			NA			NA			NA			NA		
	MST232-R2	NA			NA			NA			NA			NA			NA			NA			NA		
	MST232-R3	NA			NA			NA			NA			NA			NA			NA			NA		
Little Blackfoot River, above Blackfoot Reservoir	MST234	NS			NS			NS			NS			NS			NS			NS			NS		
Meadow Creek, above Blackfoot Reservoir	MST235-avg	400			0.22			0.25			28			0.014			2.0		J	0.80			83		J
	MST235	NA			NA			NA			NA			NA			NA			NA			NA		
	MST235-P1	400			0.20			0.23			23			0.011			1.8		J	0.78			61		J
	MST235-P2	360			0.20			0.26			27			0.016			2.0		J	0.63			120		J
	MST235-P2-D	350			0.20			0.23			28			0.012			2.0		J	0.72			120		J
	MST235-P3	430			0.26			0.28			33			0.017			2.1		J	0.94			68		J
Stewart Creek, above Diamond Creek	MST236	NS			NS			NS			NS			NS			NS			NS			NS		
Timber Creek, above Diamond Creek	MST237-avg	140			0.22			0.22			35			0.0053	0.010	U	1.6		J	0.58			130		J
	MST237	NA			NA			NA			NA			NA			NA			NA			NA		
	MST237-P1	120			0.21			0.20			38			0.0021	0.010	U	1.6		J	0.50			100		J
	MST237-P2-R1	160			0.21			0.24			36			0.0063	0.010	U	1.4		J	0.63			160		J
	MST237-P2-R2	170			0.23			0.21			37			0.0086	0.010	U	1.7		J	0.61			180		J
	MST237-P2-R3	170			0.23			0.23			37			0.0081	0.010	U	1.7		J	0.71			180		J
	MST237-P3	120			0.23			0.23			29			0.0062	0.010	U	1.6		J	0.60			120		J
Little Blackfoot River, upstream of Henry cutoff road	MST254	NS			NS			NS			NS			NS			NS			NS			NS		
East Fork Rasmussen Creek headwaters	MST269	NS			NS			NS			NS			NS			NS			NS			NS		
Long Valley Creek, downstream of station MST050	MST270	NS			NS			NS			NS			NS			NS			NS			NS		
Long Valley Creek, below East Fork Long Valley Creek	MST271	NS			NS			NS			NS			NS			NS			NS			NS		
Wooley Valley Creek, above Loadout Creek at road	MST272	NS			NS			NS			NS			NS			NS			NS			NS		
Wooley Valley Creek, above ponding and below MST089	MST273	NS			NS			NS			NS			NS			NS			NS			NS		
West Fork Rasmussen Creek, above Rasmussen Creek	MST274	NS			NS			NS			NS			NS			NS			NS			NS		
North Fork Lone Pine Creek, Northeast and above East Fork Lone Pine Creek	MST275	NS			NS			NS			NS			NS			NS			NS			NS		
Tributary to West Fork Lone Pine Creek, above West Fork Lone Pine Creek	MST276	NS			NS			NS			NS			NS			NS			NS			NS		
Spring-fed tributary, above Lone Pine Creek	MST277	NS			NS			NS			NS			NS			NS			NS			NS		

Table 6: Riparian Vegetation Historical Analytical Data (mg/kg, dw) continued																			
		Mercury			Nickel			Silver			Thallium			Uranium			Vanadium		
Station		2001 [c]			2001 [c]			2001 [c]			2001 [c]			2001 [c]			2001 [c]		
Name	ID	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag
Henry Mine South Pit Overburden Dump Seep, (1997 #28)	MDS016	NS			NS			NS			NS			NS			NS		
Henry Mine South Pit Overburden Dump Limestone Drain (formerly FD002) (1997 #29)	MDS022	NS			NS			NS			NS			NS			NS		
Enoch Valley Mine West Dump Seep	MDS025	NS			NS			NS			NS			NS			NS		
Enoch Valley Mine South Dump Seep	MDS026	NS			NS			NS			NS			NS			NS		
Ballard Mine Pit #2 Upper Dump Seep	MDS030	NS			NS			NS			NS			NS			NS		
Ballard Mine Pit #2 Lower Dump Seep South	MDS031	NS			NS			NS			NS			NS			NS		
Ballard Mine Pit #2 Lower Dump Seep North	MDS032	NS			NS			NS			NS			NS			NS		
Ballard Mine Goat Seep	MDS033	NS			NS			NS			NS			NS			NS		
Ballard Mine Pit Well East	MMW001	NS			NS			NS			NS			NS			NS		
Ballard Mine Pit Well West	MMW002	NS			NS			NS			NS			NS			NS		
Henry Mine North Pit – South	MMW003	NS			NS			NS			NS			NS			NS		
Henry Mine North Pit – North	MMW004	NS			NS			NS			NS			NS			NS		
Enoch Valley Shop/Office Well	MPW019	NS			NS			NS			NS			NS			NS		
Henry Mine South Pit	MPW022	NS			NS			NS			NS			NS			NS		
Henry Mine Center Pit	MPW023	NS			NS			NS			NS			NS			NS		
Reservoir Delta at Blackfoot River	MRV011	NS			NS			NS			NS			NS			NS		
Reservoir Delta at Little Blackfoot River	MRV016	NS			NS			NS			NS			NS			NS		
Reservoir Delta at Meadow Creek	MRV017	NS			NS			NS			NS			NS			NS		
Enoch Valley Mine, Hedin Spring	MSG001	NS			NS			NS			NS			NS			NS		
Henry Mine, Taylor Spring	MSG002	NS			NS			NS			NS			NS			NS		
Ballard Mine, Garden Hose Spring	MSG003	NS			NS			NS			NS			NS			NS		
Ballard Mine, Holmgren Spring	MSG004	NS			NS			NS			NS			NS			NS		
Ballard Mine, Cattle Spring	MSG005	NS			NS			NS			NS			NS			NS		
Ballard Mine Southeast Spring	MSG006	NS			NS			NS			NS			NS			NS		
Ballard Mine Dredge Pond	MSP010	NS			NS			NS			NS			NS			NS		
Ballard Mine Upper Elk Pond	MSP011	NS			NS			NS			NS			NS			NS		
Ballard Mine Lower Elk Pond	MSP012	NS			NS			NS			NS			NS			NS		
Ballard Mine Northeast Pond	MSP013	NS			NS			NS			NS			NS			NS		
Henry Mine Henry Pond	MSP014	NS			NS			NS			NS			NS			NS		
Henry Mine Smith Pond	MSP015	NS			NS			NS			NS			NS			NS		
Henry Mine Center Henry Pond	MSP016	NS			NS			NS			NS			NS			NS		
Enoch Valley Mine South Pond	MSP017	NS			NS			NS			NS			NS			NS		
Enoch Valley Mine Keyhole Pond	MSP018	NS			NS			NS			NS			NS			NS		
Enoch Valley Mine Bat Cave Pond	MSP019	NS			NS			NS			NS			NS			NS		
Enoch Valley Mine West Pond	MSP020	NS			NS			NS			NS			NS			NS		
Enoch Valley Mine Stock Pond	MSP021	NS			NS			NS			NS			NS			NS		
Enoch Valley Mine Tipple Pond	MSP022	NS			NS			NS			NS			NS			NS		
Enoch Valley Mine Haul Road Pond	MSP023	NS			NS			NS			NS			NS			NS		
Enoch Valley Mine Shop Pond	MSP031	NS			NS			NS			NS			NS			NS		
Henry Mine South Pit Pond	MSP055	NS			NS			NS			NS			NS			NS		
Ballard Mine Pit #4 Stock Pond	MSP059	NS			NS			NS			NS			NS			NS		
Ballard Mine Pit #6 Pond	MSP062	NS			NS			NS			NS			NS			NS		

Table 6: Riparian Vegetation Historical Analytical Data (mg/kg, dw) continued																			
		Mercury			Nickel			Silver			Thallium			Uranium			Vanadium		
Station		2001 [c]			2001 [c]			2001 [c]			2001 [c]			2001 [c]			2001 [c]		
Name	ID	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag
Blackfoot River, below Ballard Creek	MST019	NS			NS			NS			NS			NS			NS		
Blackfoot River, below State Land Creek	MST020	NS			NS			NS			NS			NS			NS		
Blackfoot River, below Trail Creek	MST021	NS			NS			NS			NS			NS			NS		
Blackfoot River, below Wooley Valley Creek	MST022	NS			NS			NS			NS			NS			NS		
Blackfoot River, below Dry Valley Creek, (1997 #20)	MST023	NS			NS			NS			NS			NS			NS		
Blackfoot River, above Dry Valley Creek, (1997 #19)	MST024	NS			NS			NS			NS			NS			NS		
Blackfoot River, below Wooley Range Ridge Creek	MST025	NS			NS			NS			NS			NS			NS		
Blackfoot River, above Wooley Range Ridge Creek	MST026-avg	0.0083	0.075	UJ	0.77			-0.028	0.010	U	-0.00020	0.10	U	0.028	0.040	U	0.98		
	MST026-P1	0.0080	0.075	UJ	0.68			-0.031	0.010	U	-0.00085	0.10	U	0.030	0.040	U	0.93		
	MST026-P1-D	NA			0.76			-0.029	0.010	U	-0.00016	0.10	U	0.036	0.040	U	1.0		
	MST026-P2	0.0070	0.075	UJ	0.78			-0.027	0.010	U	0.0020	0.10	U	0.028	0.040	U	1.0		
	MST026-P3	0.010	0.075	UJ	0.82			-0.028	0.010	U	-0.0021	0.10	U	0.022	0.040	U	0.98		
Blackfoot River, below Angus Creek	MST027	NS			NS			NS			NS			NS			NS		
Blackfoot River, above Diamond Creek Rd.	MST028	NS			NS			NS			NS			NS			NS		
Blackfoot River, above Spring Creek	MST029	NS			NS			NS			NS			NS			NS		
Little Blackfoot River, below Long Valley Creek	MST043	NS			NS			NS			NS			NS			NS		
Little Blackfoot River, immediately below Henry Mine, (1997 #24)	MST044	NS			NS			NS			NS			NS			NS		
Little Blackfoot River, above Henry Creek, (1997 #23)	MST045	NS			NS			NS			NS			NS			NS		
Little Blackfoot River, below Lone Pine Creek	MST046	NS			NS			NS			NS			NS			NS		
Little Blackfoot River, above Lone Pine Creek	MST047	NS			NS			NS			NS			NS			NS		
Little Blackfoot River, below Reese Creek	MST048	NS			NS			NS			NS			NS			NS		
Little Blackfoot River, above Reese Creek	MST049-avg	NS			0.84			0.10			0.12			0.28			1.8		
	MST049-P1	NA			0.28			0.11			0.11			0.052			0.19		
	MST049-P2	NA			1.9			0.093			0.14			0.84			5.5		
	MST049-P3	NA			0.45			0.10			0.11			0.061			0.41		
Long Valley Creek, below Ballard Mine, (ponded area)	MST050	NS			NS			NS			NS			NS			NS		
East Fork Long Valley Creek, below Henry Mine	MST051	NS			NS			NS			NS			NS			NS		
Henry Creek, above Little Blackfoot River	MST052	NS			NS			NS			NS			NS			NS		
Lone Pine Creek, above Little Blackfoot River	MST053	NS			NS			NS			NS			NS			NS		
Lone Pine Creek, above Spring-Fed Creek	MST054	NS			NS			NS			NS			NS			NS		
Lone Pine Creek, below Strip Mine Creek	MST055	NS			NS			NS			NS			NS			NS		
Lone Pine Creek, above Strip Mine Creek	MST056	NS			NS			NS			NS			NS			NS		
Lone Pine Creek, above Lone Pine Creek	MST057	NS			NS			NS			NS			NS			NS		
Lone Pine Creek, above West Fork Lone Pine Creek	MST058	NS			NS			NS			NS			NS			NS		
West Rasmussen. Ridge Creek #1, above Lone Pine Creek	MST059	NS			NS			NS			NS			NS			NS		
West Rasmussen. Ridge Creek #2, above Lone Pine Creek	MST060	NS			NS			NS			NS			NS			NS		
West Rasmussen. Ridge Creek #3, above Lone Pine Creek	MST061	NS			NS			NS			NS			NS			NS		
Strip Mine Creek, above Lone Pine Creek	MST062	NS			NS			NS			NS			NS			NS		
Strip Mine Creek, below Henry Mine	MST063	NS			NS			NS			NS			NS			NS		
West Fork Lone Pine Creek, above tributary	MST064	NS			NS			NS			NS			NS			NS		
Ballard Creek, above Blackfoot River	MST066	NS			NS			NS			NS			NS			NS		
Ballard Creek headwaters	MST067	NS			NS			NS			NS			NS			NS		

Table 6: Riparian Vegetation Historical Analytical Data (mg/kg, dw) continued																			
		Mercury			Nickel			Silver			Thallium			Uranium			Vanadium		
Station		2001 [c]			2001 [c]			2001 [c]			2001 [c]			2001 [c]			2001 [c]		
Name	ID	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag
West Fork Ballard Creek Headwaters	MST068	NS			NS			NS			NS			NS			NS		
Short Creek, below Ballard Mine	MST069	NS			NS			NS			NS			NS			NS		
Wooley Valley Creek, above Blackfoot River	MST088	NS			NS			NS			NS			NS			NS		
Wooley Valley Creek, below North Fork Wooley Valley Creek	MST089	NS			NS			NS			NS			NS			NS		
Wooley Valley Creek, above North Fork Wooley Valley Creek	MST090	NS			NS			NS			NS			NS			NS		
North Fork Wooley Valley Creek, above Wooley Valley Creek	MST092	NS			NS			NS			NS			NS			NS		
North Fork Wooley Valley Creek, above Ballard Mine	MST093	NS			NS			NS			NS			NS			NS		
Spring-fed tributary #1 of North Fork Wooley Valley Creek, below Ballard Mine	MST094	NS			NS			NS			NS			NS			NS		
Spring-fed tributary #2of North Fork Wooley Valley Creek, below Ballard Mine	MST095	NS			NS			NS			NS			NS			NS		
Tributary of North Fork Wooley , below Ballard Mine	MST096	NS			NS			NS			NS			NS			NS		
Caldwell Creek, below Phosphoria Formation outcrop	MST101	NS			NS			NS			NS			NS			NS		
Angus Creek, above Blackfoot River	MST126	NS			NS			NS			NS			NS			NS		
Angus Creek, below No Name Creek	MST127	NS			NS			NS			NS			NS			NS		
Angus Creek, above Rasmussen Creek	MST128	NS			NS			NS			NS			NS			NS		
Angus Creek, R-B&M-10, below Wooley Valley Mine	MST129	NS			NS			NS			NS			NS			NS		
Angus Creek, R-B&M-10, below Upper Angus Creek Reservoir	MST130-avg	0.025		J	0.99			-0.026	0.010	U	0.0047	0.10	U	0.022	0.040	U	0.89		
	MST130-P1	0.025		J	1.1			-0.027	0.010	U	-0.00072	0.10	U	0.021	0.040	U	1.0		
	MST130-P2	0.030		J	1.0			-0.030	0.010	U	0.0065	0.10	U	0.022	0.040	U	0.95		
	MST130-P2-D	NA			0.93			-0.028	0.010	U	0.0084	0.10	U	0.020	0.040	U	1.0		
	MST130-P3	0.020		J	0.91			-0.023	0.010	U	0.0072	0.10	U	0.024	0.040	U	0.70		
Rassmussen Creek, above Angus Creek	MST131	NS			NS			NS			NS			NS			NS		
Angus Creek, below Rasmussen Creek	MST132	NS			NS			NS			NS			NS			NS		
Rasmussen Creek, below Enoch Valley Mine	MST133	NS			NS			NS			NS			NS			NS		
Rasmussen Creek, below West Pond Creek	MST134	NS			NS			NS			NS			NS			NS		
Rasmussen Creek, above West Pond Creek	MST135	NS			NS			NS			NS			NS			NS		
Rasmussen Creek headwaters, near Enoch Valley Mine Shop Pond	MST136	NS			NS			NS			NS			NS			NS		
East Fork Rasmussen Creek, above Rasmussen Creek	MST143	NS			NS			NS			NS			NS			NS		
West Pond Creek headwaters, below West Pond	MST144	NS			NS			NS			NS			NS			NS		
East Fork Lone Pine Creek, below Wooley Valley Mine	MST226	NS			NS			NS			NS			NS			NS		
Blackfoot River, below Spring Creek	MST229	NS			NS			NS			NS			NS			NS		
Blackfoot River, above State Land Creek	MST230	NS			NS			NS			NS			NS			NS		
Blackfoot River, below Woodall Mountain Creek	MST231	NS			NS			NS			NS			NS			NS		
Blackfoot River, above Blackfoot Reservoir	MST232	NS			NS			NS			NS			NS			NS		
Little Blackfoot River, above Blackfoot Reservoir	MST234	NS			NS			NS			NS			NS			NS		
Meadow Creek, above Blackfoot Reservoir	MST235-avg	0.038		J	0.49			0.098			0.11			0.062			0.76		
	MST235-P1	0.041		J	0.51			0.089			0.10			0.059			0.82		
	MST235-P2	0.038		J	0.48			0.097			0.11			0.059			0.71		
	MST235-P2-D	NA			0.48			0.091			0.11			0.057			0.71		
	MST235-P3	0.036		J	0.48			0.11			0.12			0.068			0.76		
Stewart Creek, above Diamond Creek	MST236	NS			NS			NS			NS			NS			NS		
Timber Creek, above Diamond Creek	MST237-avg	0.034		J	0.48			0.11			0.11			0.052			0.52		
	MST237-P1	0.024		J	0.44			0.10			0.11			0.052			0.41		
	MST237-P2-R1	0.040		J	0.40			0.10			0.11			0.048			0.31		
	MST237-P2-R2	0.036		J	0.45			0.11			0.11			0.050			0.55		
	MST237-P2-R3	0.034		J	0.47			0.11			0.11			0.052			0.57		
	MST237-P3	0.041		J	0.55			0.16			0.12			0.053			0.66		

Table 6: Riparian Vegetation Historical Analytical Data (mg/kg, dw) continued																			
		Mercury			Nickel			Silver			Thallium			Uranium			Vanadium		
Station		2001 [c]			2001 [c]			2001 [c]			2001 [c]			2001 [c]			2001 [c]		
Name	ID	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag	Sept.	RL	Flag
Little Blackfoot River, upstream of Henry cutoff road	MST254	NS			NS			NS			NS			NS			NS		
East Fork Rasmussen Creek headwaters	MST269	NS			NS			NS			NS			NS			NS		
Long Valley Creek, downstream of station MST050	MST270	NS			NS			NS			NS			NS			NS		
Long Valley Creek, below East Fork Long Valley Creek	MST271	NS			NS			NS			NS			NS			NS		
Wooley Valley Creek, above Loadout Creek at road	MST272	NS			NS			NS			NS			NS			NS		
Wooley Valley Creek, above ponding and below MST089	MST273	NS			NS			NS			NS			NS			NS		
West Fork Rasmussen Creek, above Rasmussen Creek	MST274	NS			NS			NS			NS			NS			NS		
North Fork Lone Pine Creek, Northeast and above East Fork Lone Pine Creek	MST275	NS			NS			NS			NS			NS			NS		
Tributary to West Fork Lone Pine Creek, above West Fork Lone Pine Creek	MST276	NS			NS			NS			NS			NS			NS		
Spring-fed tributary, above Lone Pine Creek	MST277	NS			NS			NS			NS			NS			NS		

Notes:

Laboratory duplicates (D, D1) and field replicates (R1, R2, R3) are shown as unaveraged as well as averaged where appropriate.

Data qualifier definitions are:

p - Data were utilized in the *Phase 1 Site Investigation for Enoch Valley, Henry, and Ballard Mines, Draft Interim Phase 1 Sis Evaluation Summary.*

c - Data were utilized in the MWH, 2002, *Final - Summer 2001 Area-Wide Investigation Data Summary, Southeast Idaho Phosphate Resource Area Selenium Project.*

(U) - The material was analyzed for, but was not detected above the level of the associated value. The associated value is the sample reporting limit.

(J) - The result is an estimated quantity.

(R) - The data are unusable.

(UJ) - The material was analyzed for, but was not detected above the level of the associated value. The result is an estimate and may be inaccurate or imprecise.

RL - Reporting Limit.

NA - Not Applicable.

NS - Not Sampled.