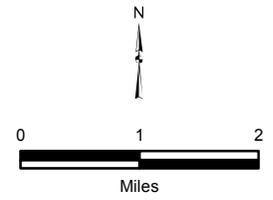


- Legend**
- Mined Area
 - Open Water
 - County Road
 - Primary Road
 - Perennial Stream
 - Intermittent Stream
 - Preliminary Operable Unit 3 Boundary

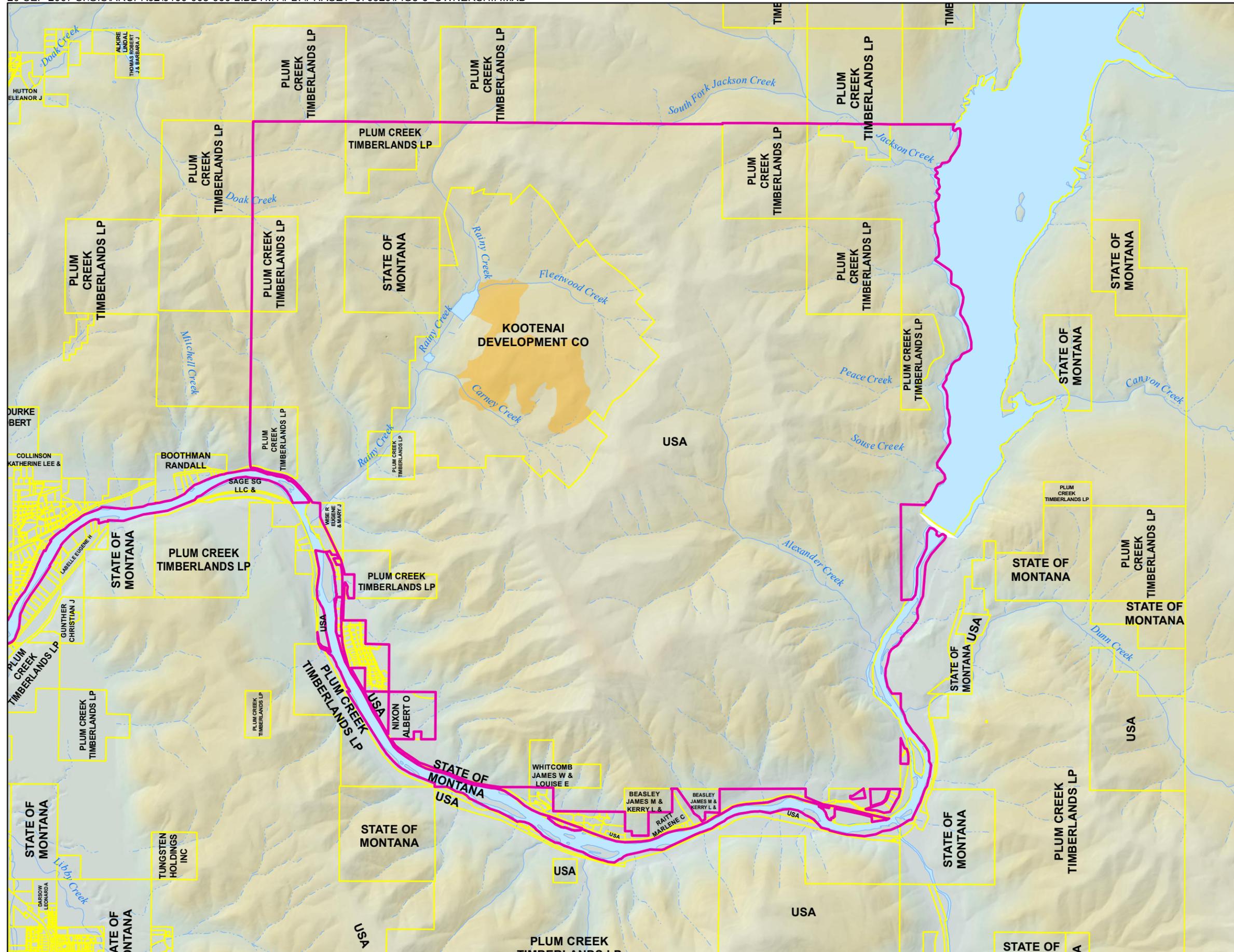


Libby Montana Superfund Site
Operable Unit 3

FIGURE 2-1

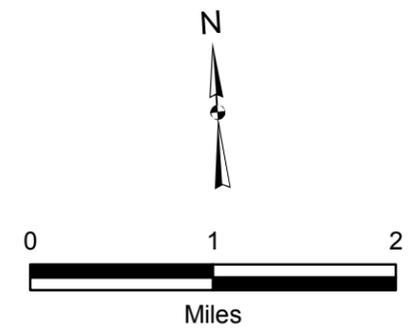
Operable Unit 3

PROJECT: 0100-008-900	DATE: AUG 02, 2007
REV: 0	BY: CHECKED: ACK



Legend

- Preliminary Operable Unit 3 Boundary
- Property Ownership Boundary
- Open Water
- Perennial Stream
- Intermittent Stream
- Mined Area



LIBBY MONTANA SUPERFUND SITE
OPERABLE UNIT 3

FIGURE 2-2

LAND OWNERSHIP

PROJECT: 0100-008-900	DATE: AUG 07, 2007
REV: 0	BY: CRL CHECKED: ACK



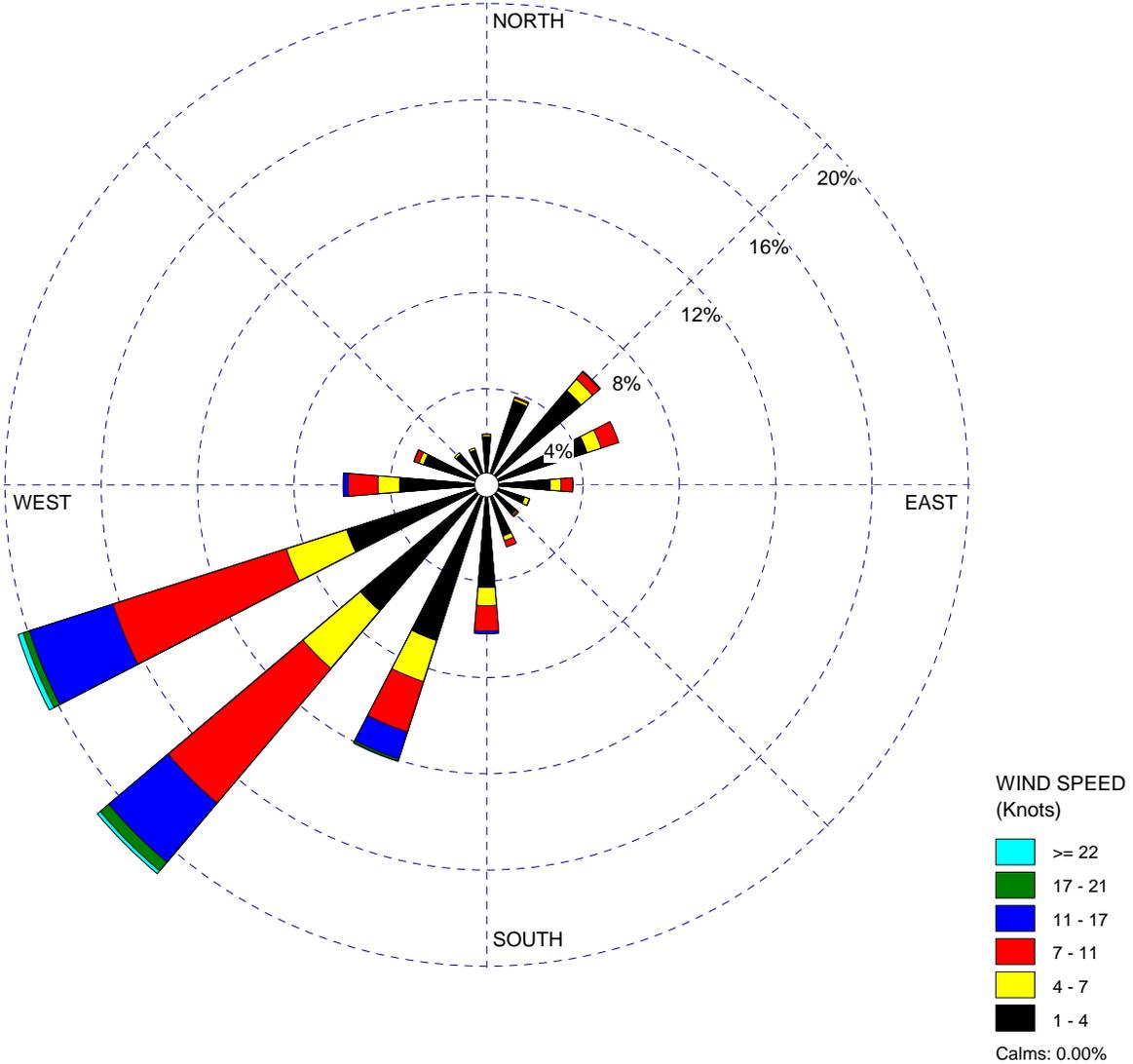


Figure 2-3

**MEASURED WIND DATA
FROM THE
METEOROLOGICAL
STATION AT THE MINE**

Syracuse Research Corporation

January 26, - August 3, 2007 00:00 - 23:00

CALM WINDS:

0.00%

TOTAL COUNT:

4352 hrs.

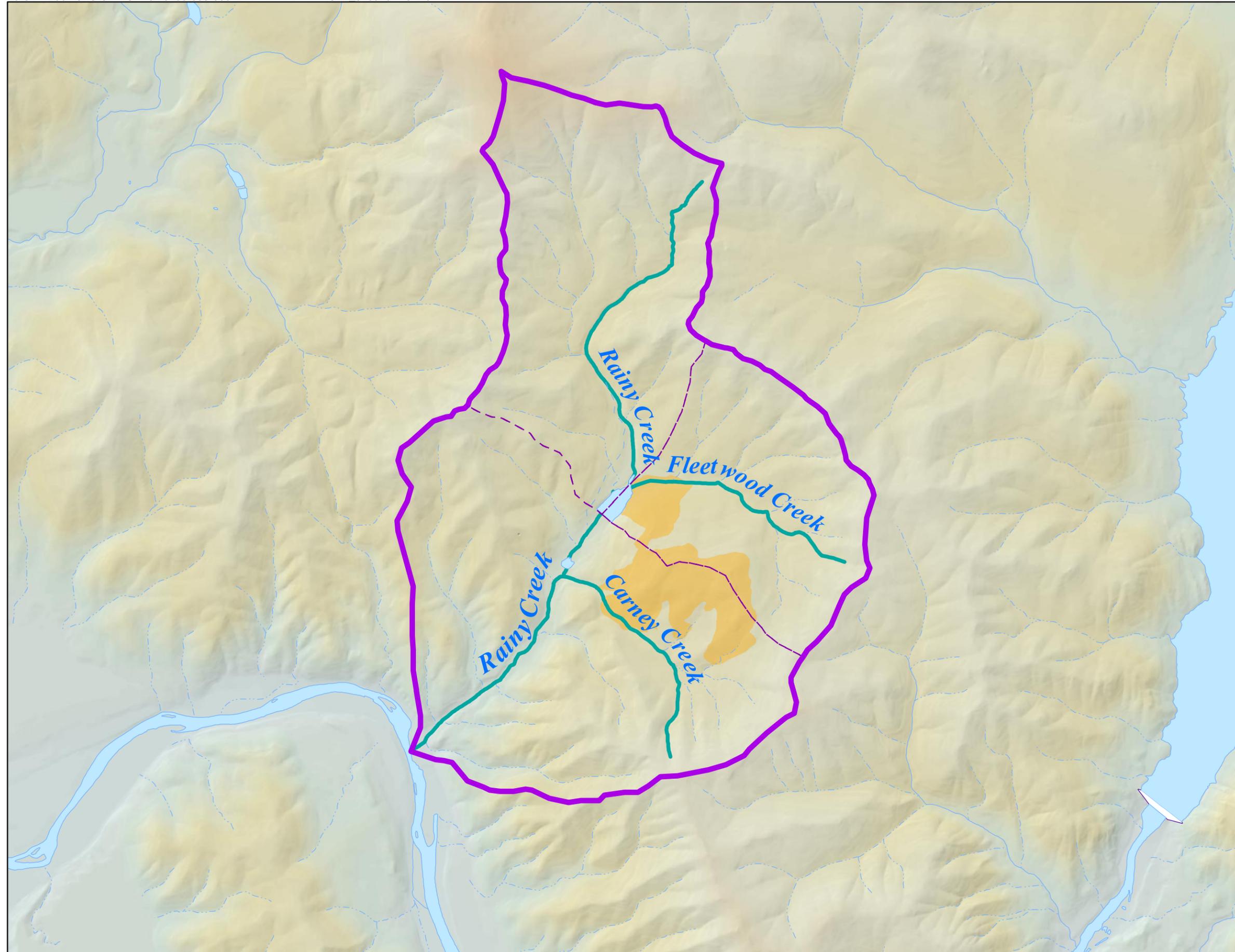
AVG. WIND SPEED:

5.40 Knots

DATE:

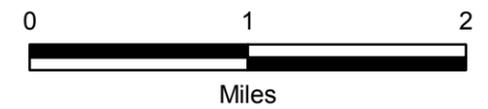
8/13/2007

Windrose Station LBBM8



Legend

-  Mined Area
-  Open Water
-  Streams in Rainy Creek Watershed
-  Perennial Stream
-  Intermittent Stream
-  Rainy Creek Watershed
-  Sub-drainage basins

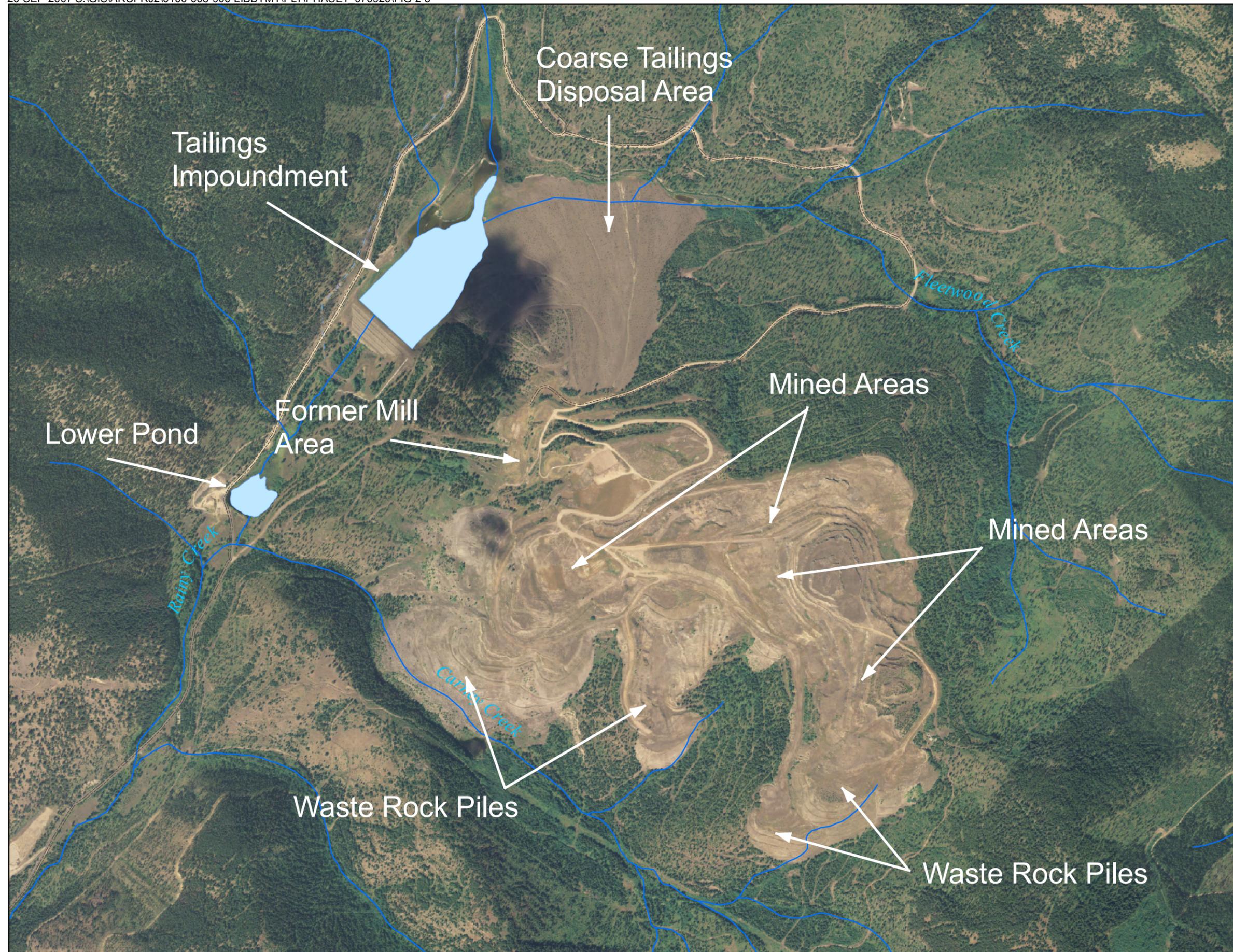


Libby Montana Superfund Site
OPERABLE UNIT 3

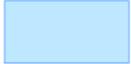
FIGURE 2-4

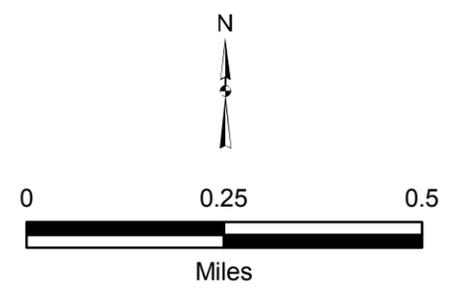
Rainy Creek Watershed

PROJECT: 0100-008-900	DATE: AUG 07, 2007	
REV: 0	BY:	CHECKED: ACK



Legend

-  NHDFlowline
-  Open Water
-  County Road
-  Primary Road

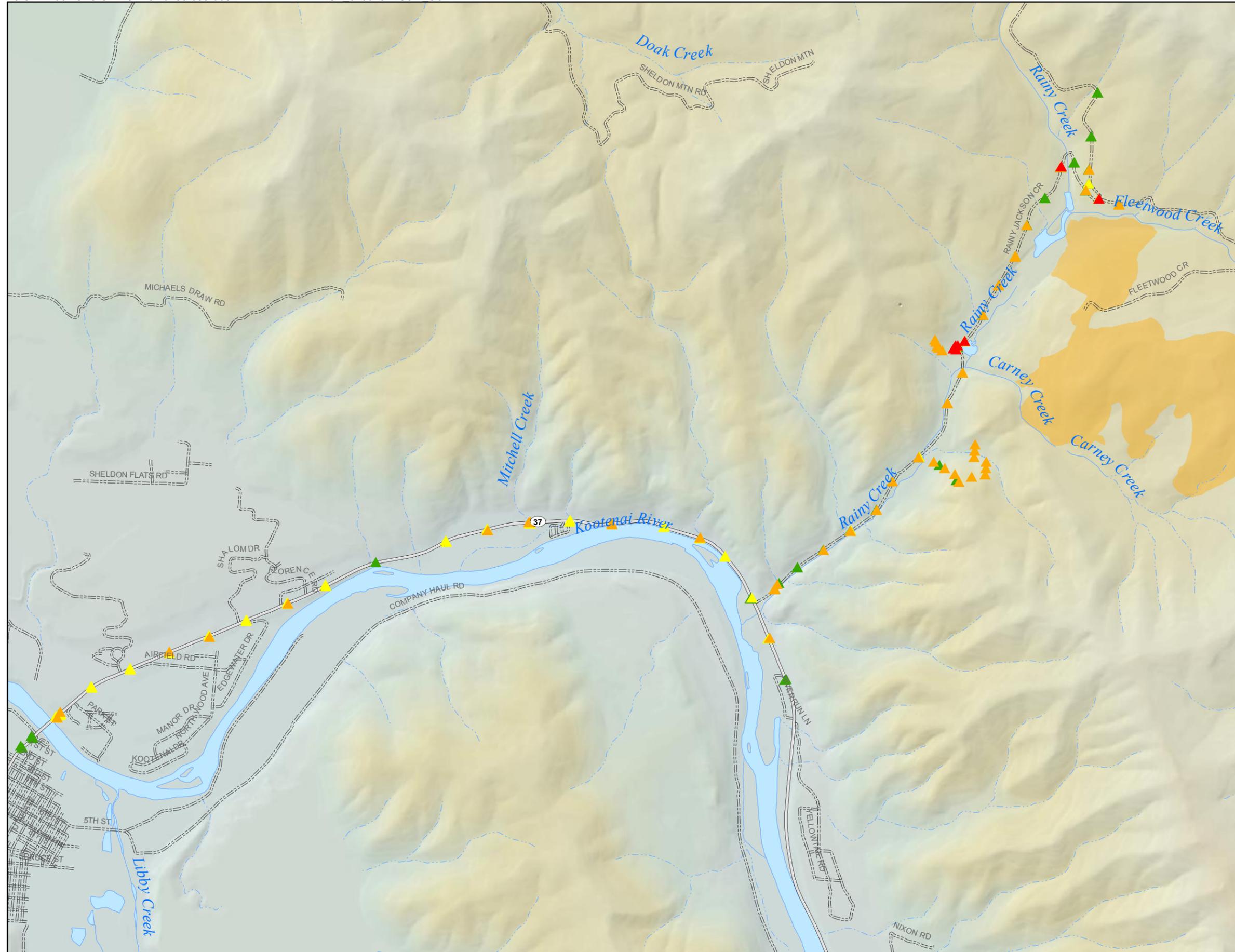


Libby Montana Superfund Site
Operable Unit 3

FIGURE 2-5

MINED AREA FEATURES

PROJECT: 0100-008-900	DATE: AUG 07, 2007
REV: 0	BY: CHECKED: ACK

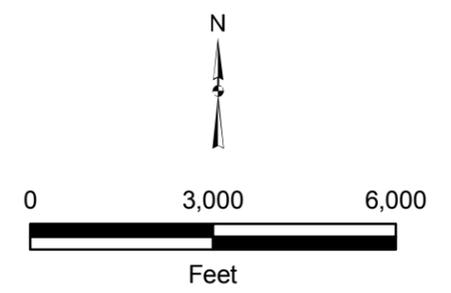


Legend

- County Road
- Primary Road
- Open Water
- Perennial Stream
- Intermittent Stream
- Mined Area

Soil Asbestos Data

- ▲ > 1%
- ▲ < 1%
- ▲ Trace
- ▲ Non-Detect

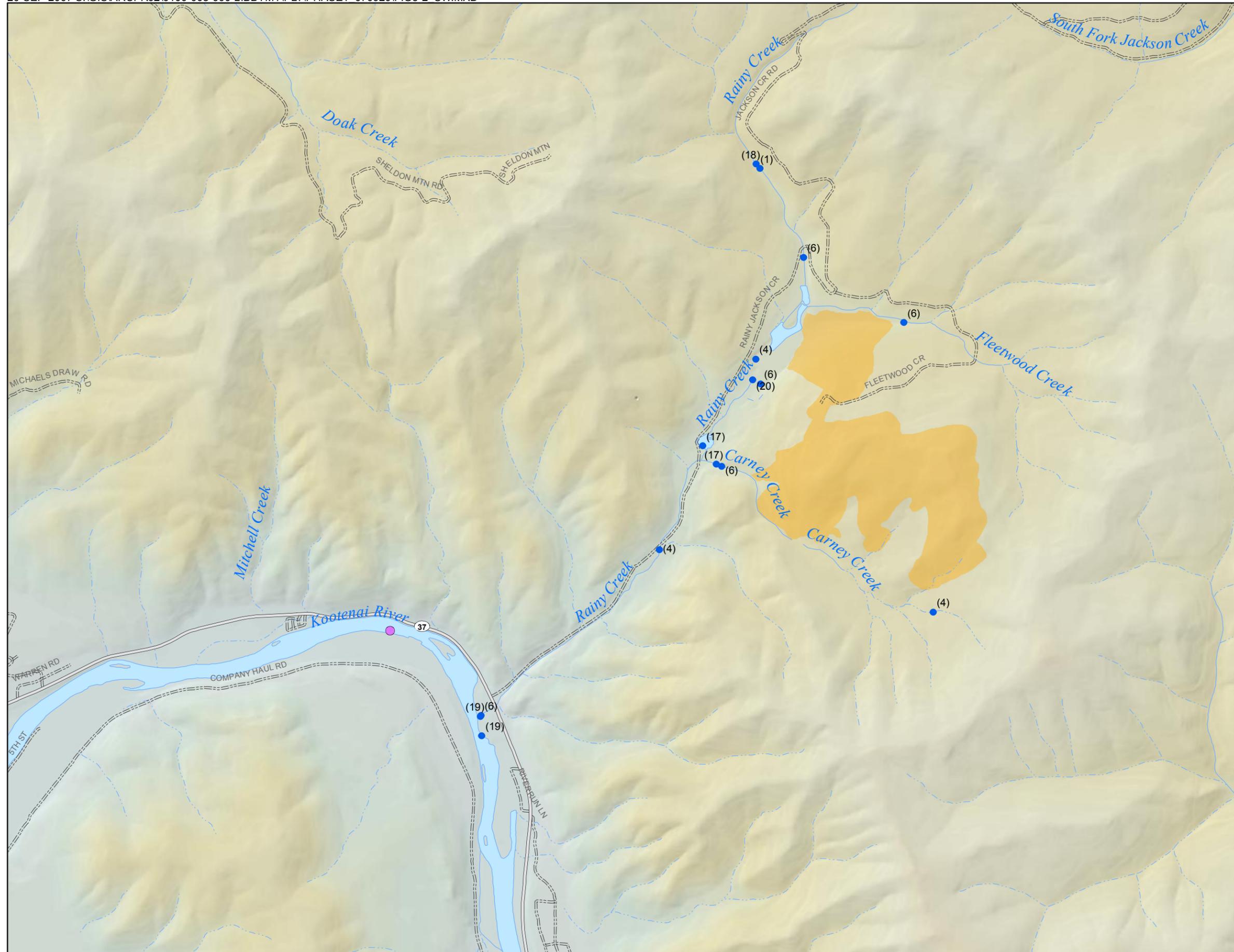


LIBBY MONTANA SUPERFUND SITE
OPERABLE UNIT 3

FIGURE 3-1

**HISTORICAL SOIL
SAMPLE LOCATIONS**

PROJECT: 0100-008-900	DATE: SEP 05, 2007
REV: 0	BY: CRL CHECKED: ACK



Legend

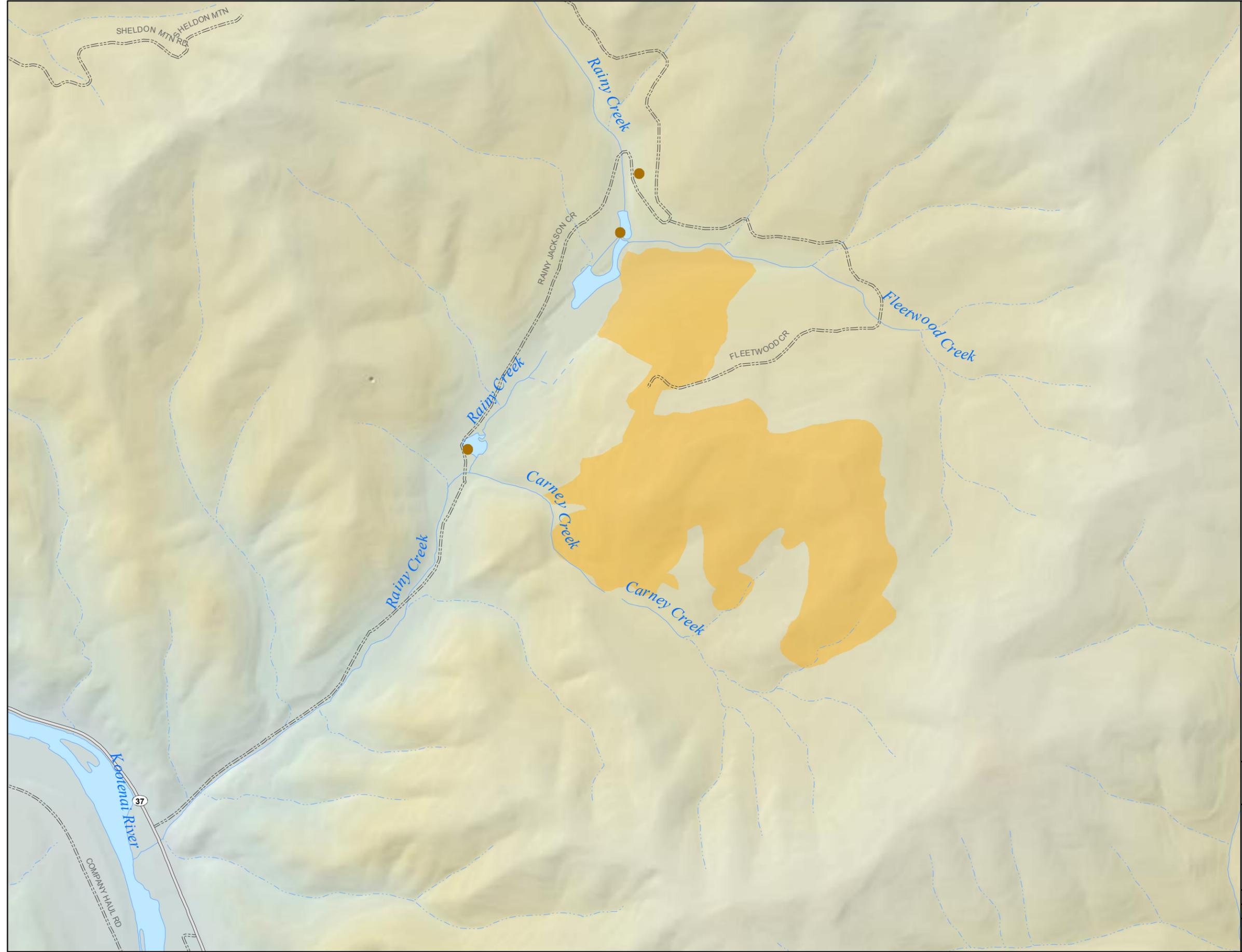
- EMAP Location
- Surface Water Sample Location
(6) - Number of times sampled
- County Road
- Primary Road
- Open Water
- Perennial Stream
- - - - Intermittent Stream
- Mined Area

LIBBY MONTANA SUPERFUND SITE
OPERABLE UNIT 3

FIGURE 3-2
**HISTORICAL SURFACE WATER
SAMPLE LOCATIONS
(1981 - 1994)**

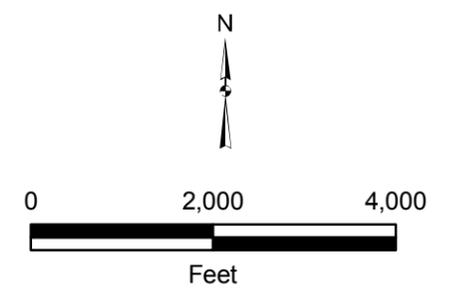
PROJECT: 0100-008-900	DATE: SEP 05, 2007
REV: 0	BY: CRL CHECKED: ACK





Legend

-  County Road
-  Primary Road
-  Open Water
-  Perennial Stream
-  Intermittent Stream
-  Mined Area
-  Sediment Sample Location



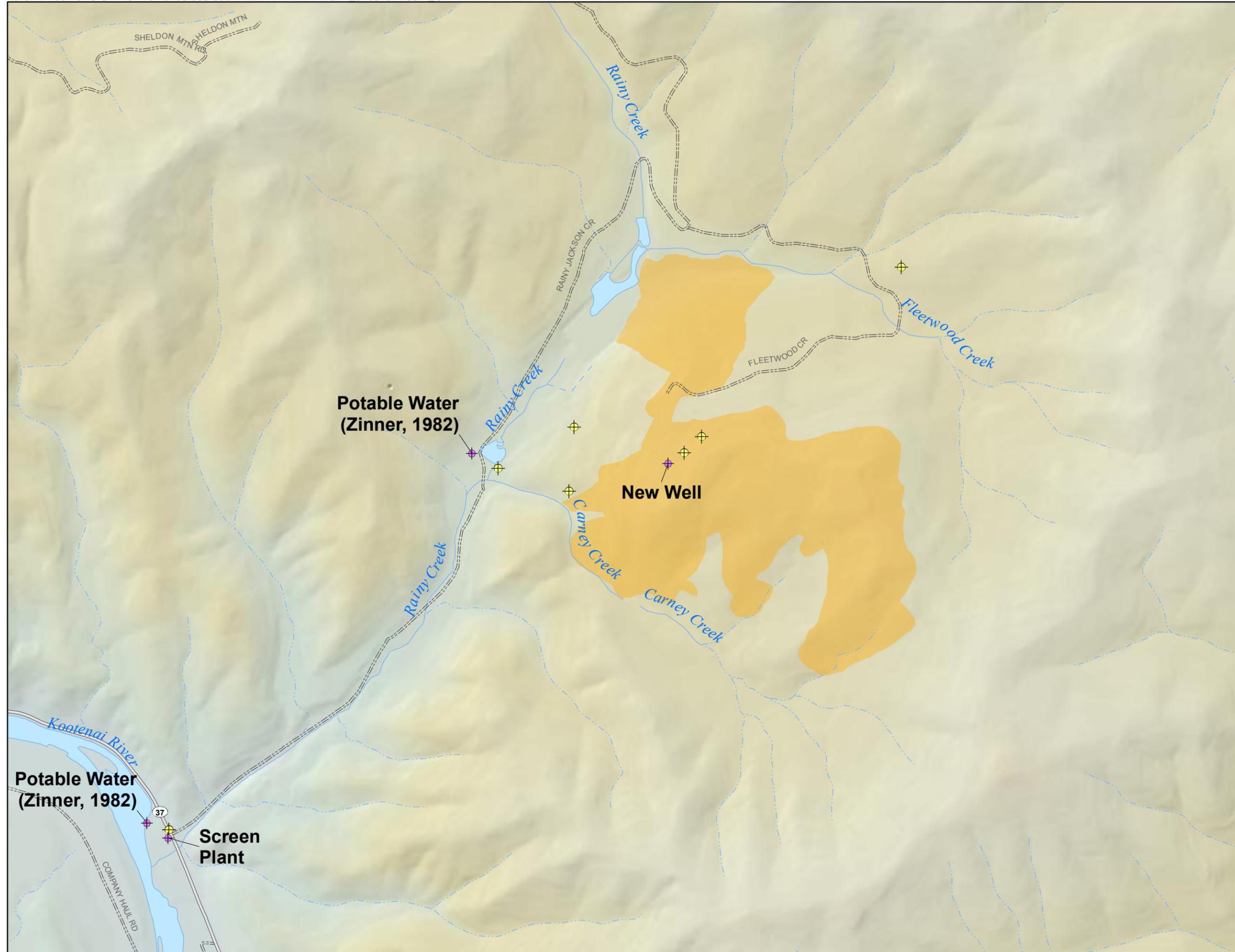
LIBBY MONTANA SUPERFUND SITE
OPERABLE UNIT 3

FIGURE 3-3

HISTORICAL SEDIMENT SAMPLE LOCATIONS

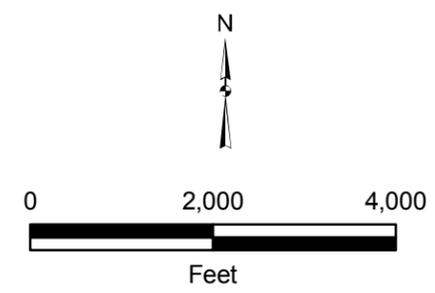
PROJECT: 0100-008-900	DATE: SEP 05, 2007
REV: 0	BY: CRL CHECKED: ACK





Legend

- ==== County Road
- ==== Primary Road
- Open Water
- Perennial Stream
- Intermittent Stream
- Mined Area
- Montana Groundwater Information Center Water Well Data (unverified locations)
- Other Possible Groundwater Wells (identified by WR Grace records Unverified Locations)



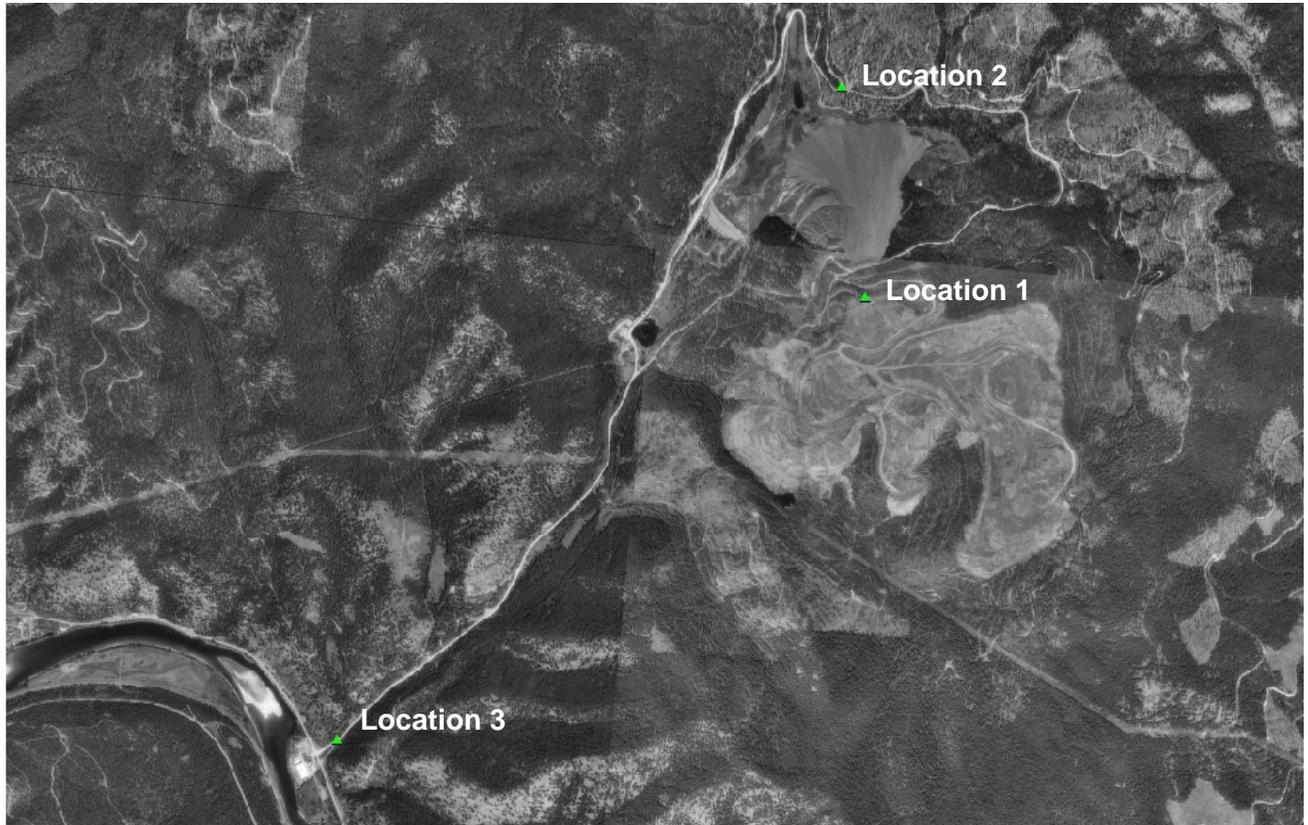
LIBBY MONTANA SUPERFUND SITE
OPERABLE UNIT 3

FIGURE 3-4
POSSIBLE GROUNDWATER WELL LOCATIONS

PROJECT: 0100-008-900	DATE: SEP 05, 2007
REV: 0	BY: CRL CHECKED: ACK



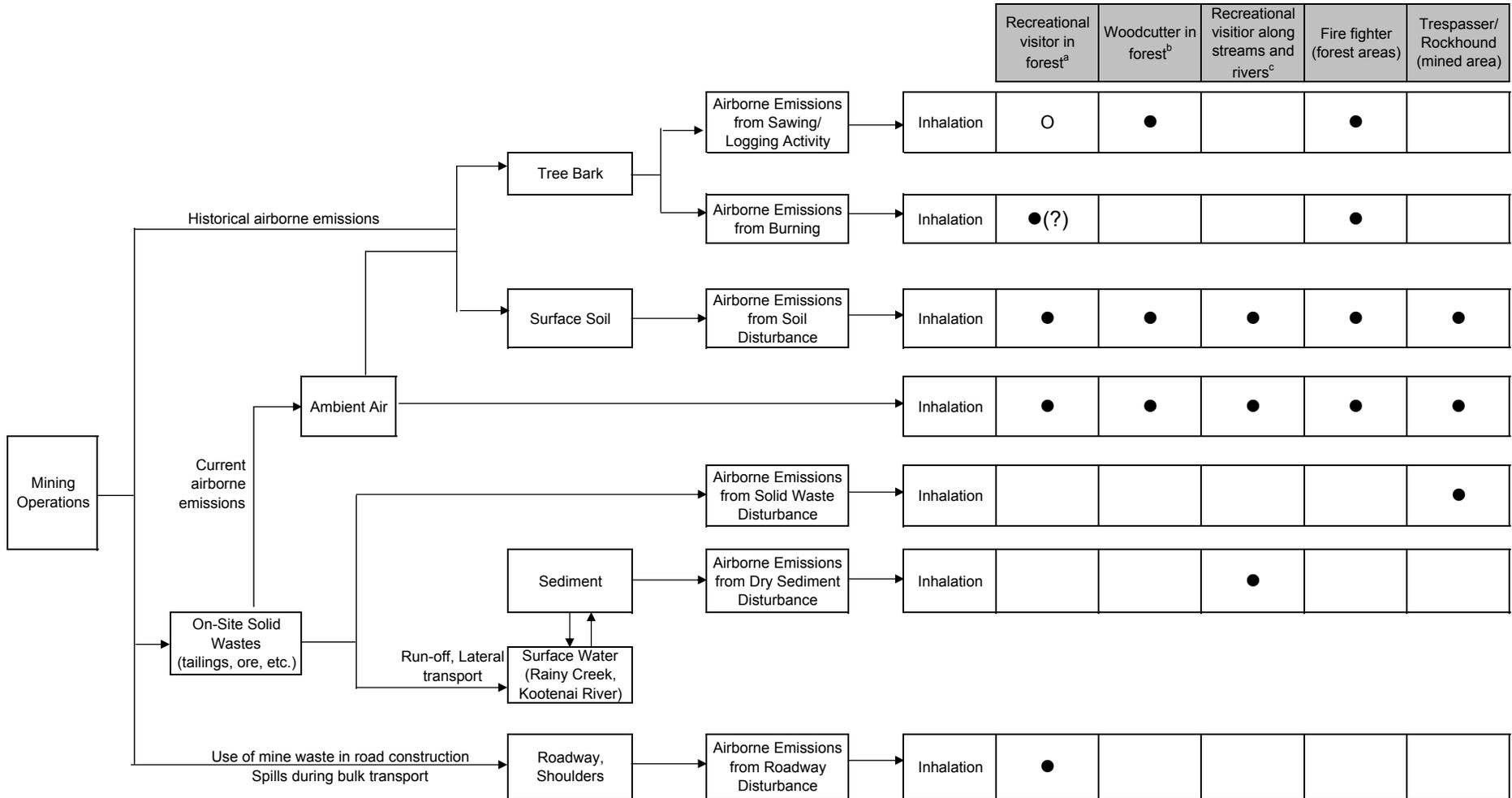
Figure 3-5
Locations of Tree Bark Sampling



Source: Ward et al. (2006)

Figure 4-1. Conceptual Site Model for Human Exposure to Asbestos

Operable Unit 3, Libby Superfund Site, Libby, Montana



LEGEND

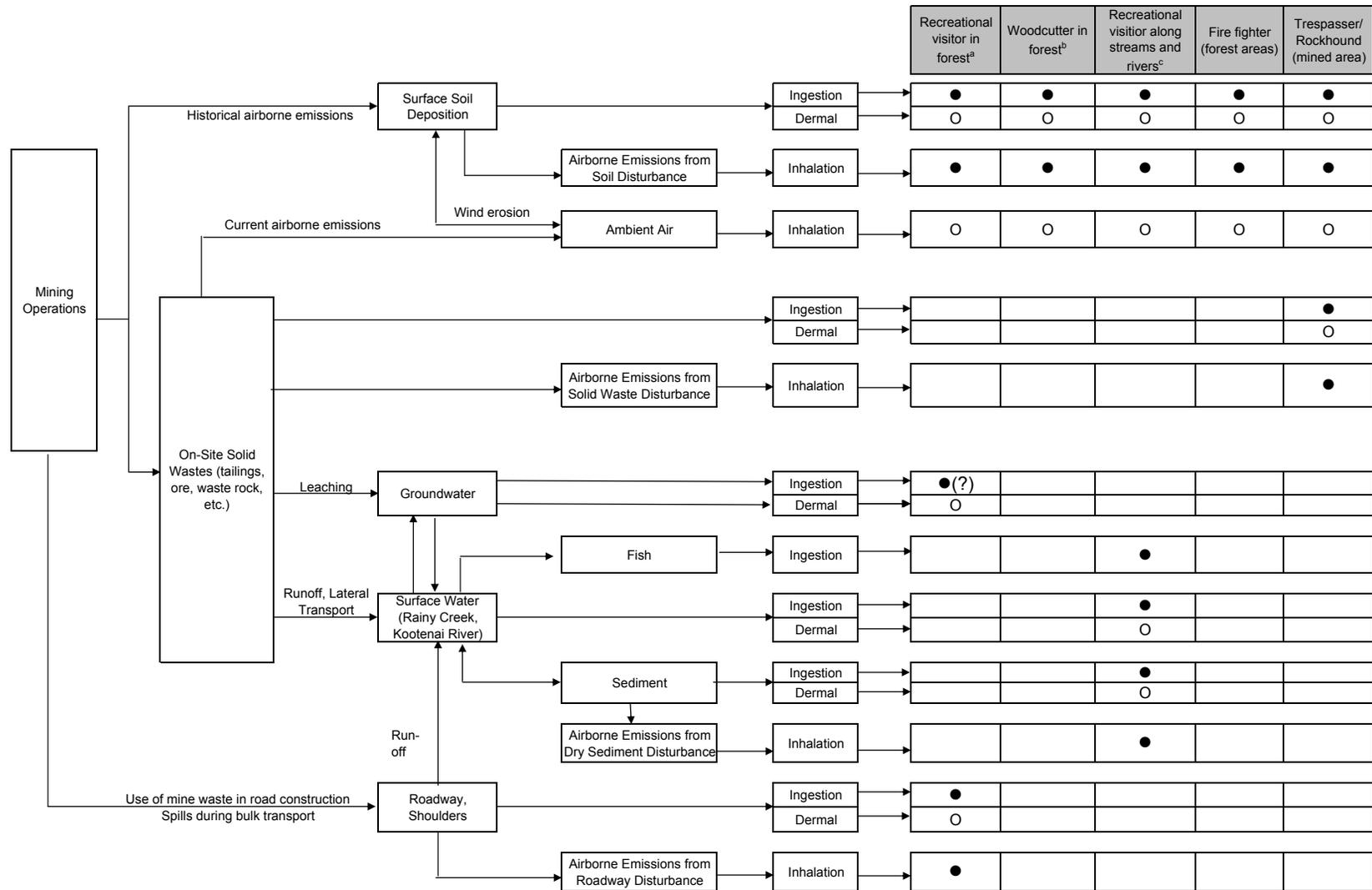
- Pathway is complete and exposure may be significant; quantitative evaluation is warranted
- Pathway is complete but is believed to be minor in comparison to other pathways; qualitative evaluation is warranted
- Pathway is incomplete or believed to be negligible; further evaluation is not warranted

NOTES:

- a. Recreational visitors in forest areas may include a range of activities, such as camping, hiking, dirt bike or ATV riding, hunting, etc.
- b. Woodcutting may include exposures of area residents gathering wood for personal use as well as commercial logging activities
- c. Recreational visitors along streams and rivers may include a range of activities such as hiking, fishing and wading/swimming

Figure 4-2. Conceptual Site Model for Human Exposure to Non-Asbestos Contaminants

Operable Unit 3, Libby Superfund Site, Libby, Montana



LEGEND

- Pathway is complete and exposure may be significant; quantitative evaluation is warranted
- Pathway is complete but is believed to be minor in comparison to other pathways; qualitative evaluation is warranted
- Pathway is incomplete or believed to be negligible; further evaluation is not warranted

NOTES:

- a. Recreational visitors in forest areas may include a range of activities, such as camping, hiking, dirt bike or ATV riding, hunting, etc.
- b. Woodcutting may include exposures of area residents gathering wood for personal use as well as commercial logging activities
- c. Recreational visitors along streams and rivers may include a range of activities such as hiking, fishing and wading/swimming

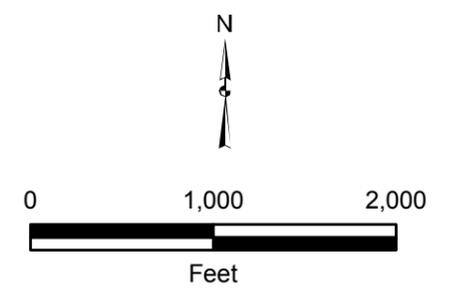


Legend

- ==== County Road
- ==== Primary Road
- Open Water
- Perennial Stream
- Intermittent Stream
- Mined Area

MineWaste Sampling Location

- Waste Rock
- Cover Material
- Outcrop
- Coarse Tailings
- Tailings Impoundment
- Road



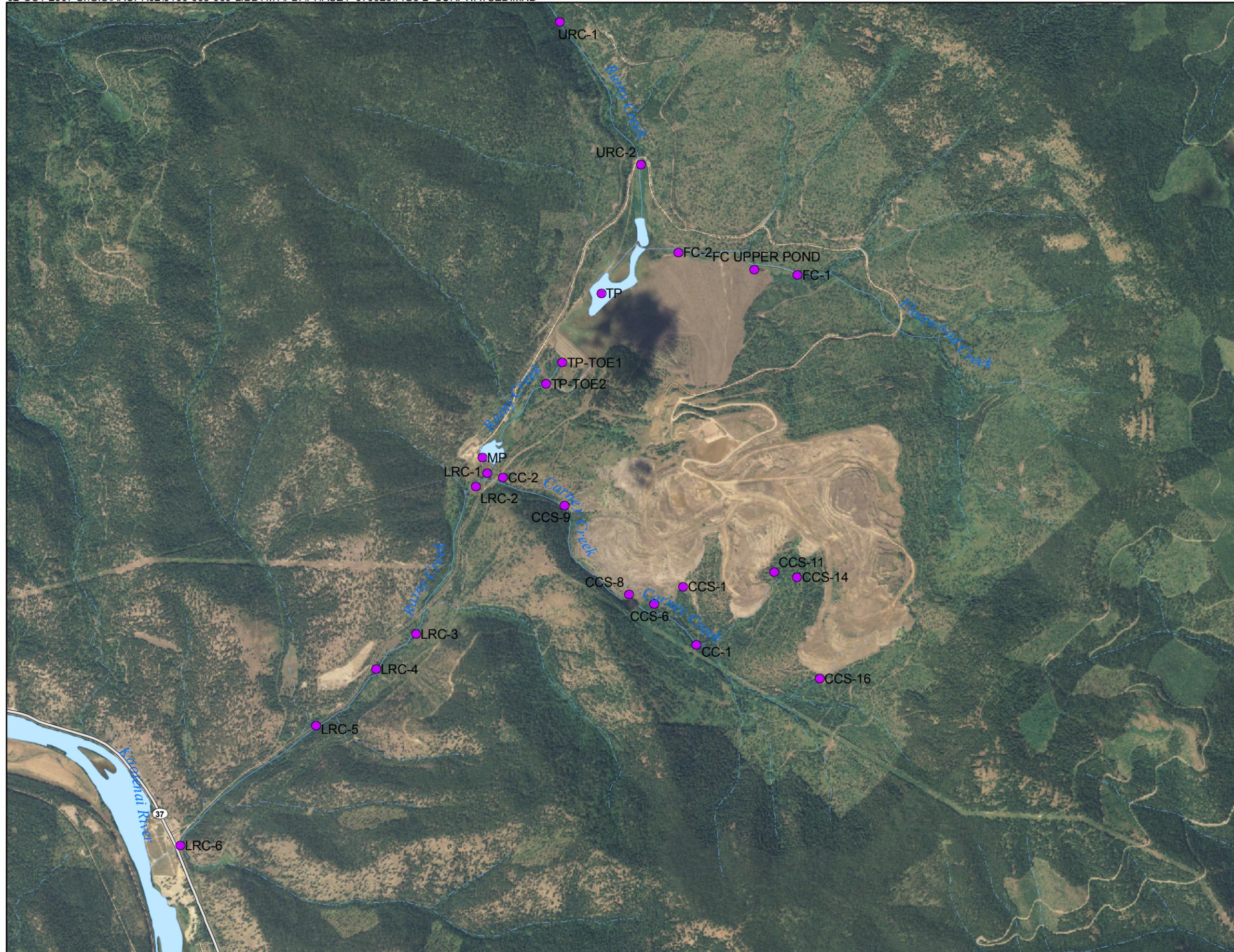
LIBBY MONTANA SUPERFUND SITE
OPERABLE UNIT 3

FIGURE 5-1

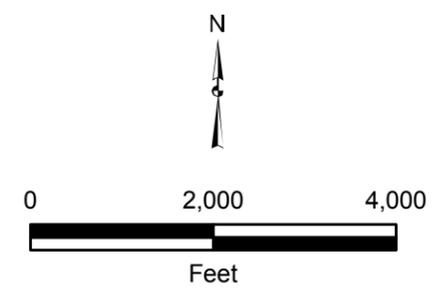
MINE WASTE SAMPLING LOCATIONS

PROJECT: 0100-008-900	DATE: OCT 3, 2007
REV: 0	BY: CRL CHECKED: ACK





- ### Legend
- ==== County Road
 - ==== Primary Road
 - Open Water
 - Perennial Stream
 - Intermittent Stream
 - Surface Water/Sediment Sample Location



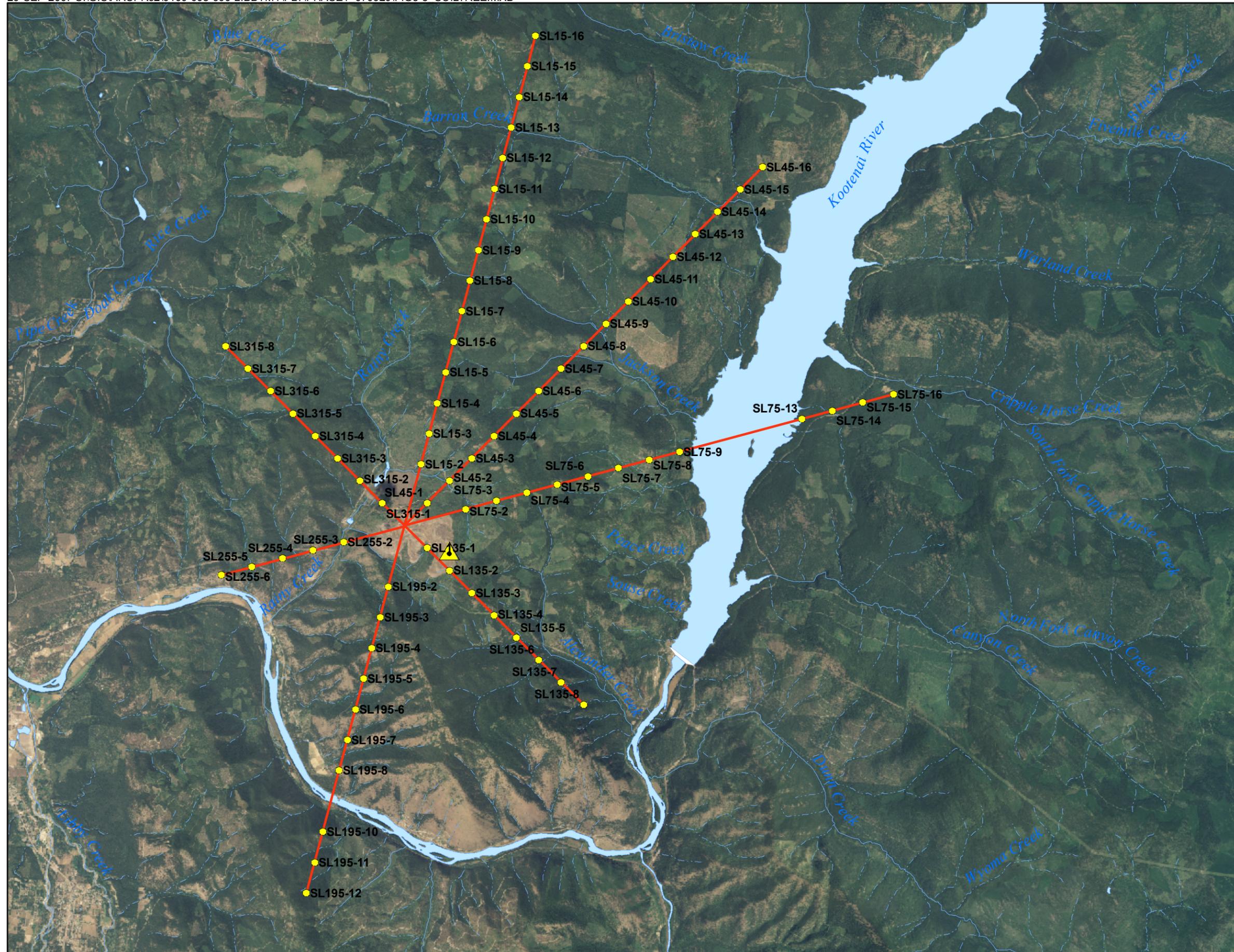
LIBBY MONTANA SUPERFUND SITE
OPERABLE UNIT 3

FIGURE 5-2

SURFACE WATER / SEDIMENT SAMPLING LOCATIONS

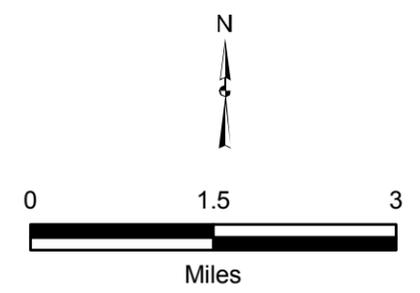
PROJECT: 0100-008-900 | DATE: OCT 2, 2007
REV: 0 | BY: CRL | CHECKED: ACK





Legend

- Soil/Tree Bark Sampling Location
- Open Water
- Perennial Stream
- - - Intermittent Stream



LIBBY MONTANA SUPERFUND SITE
OPERABLE UNIT 3

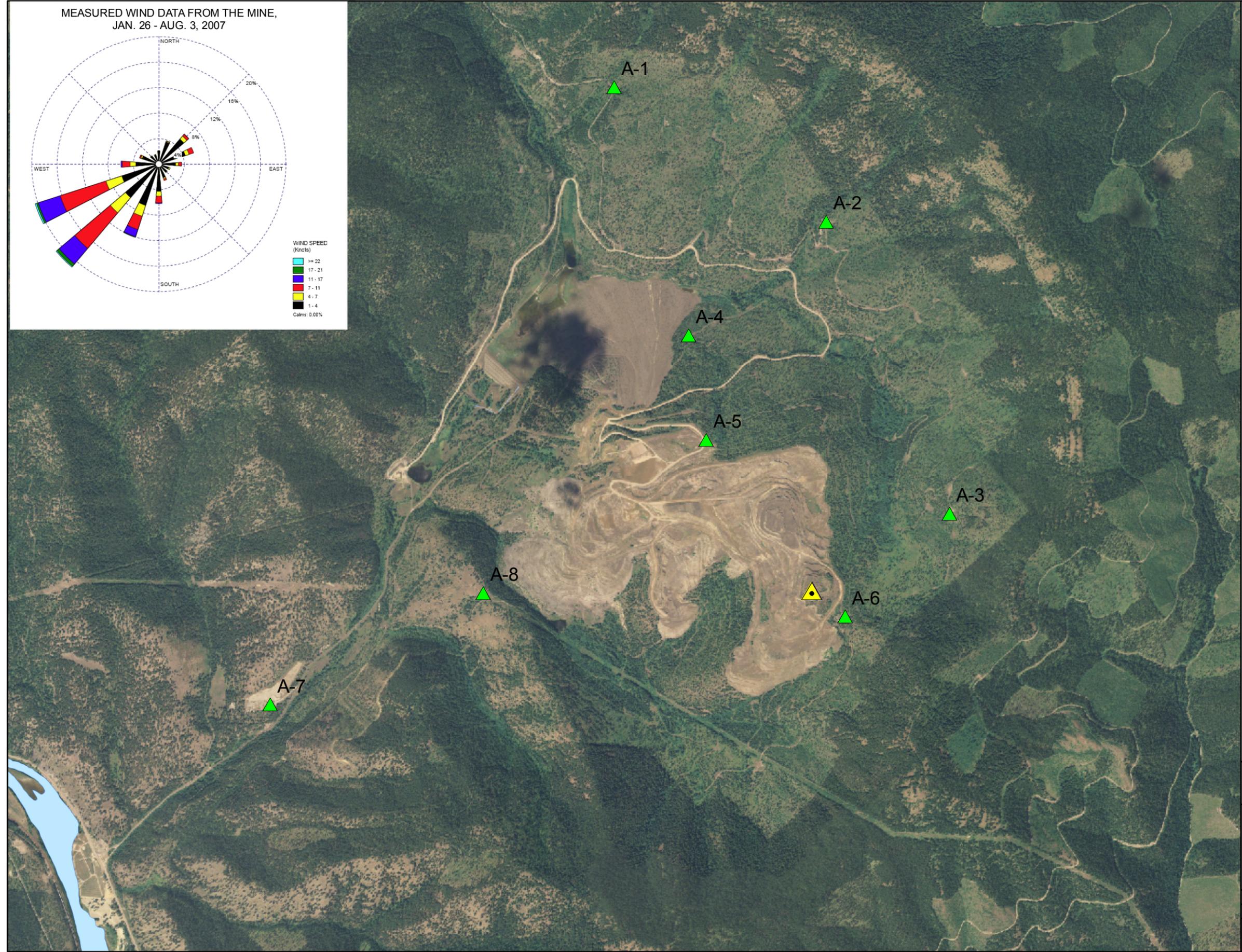
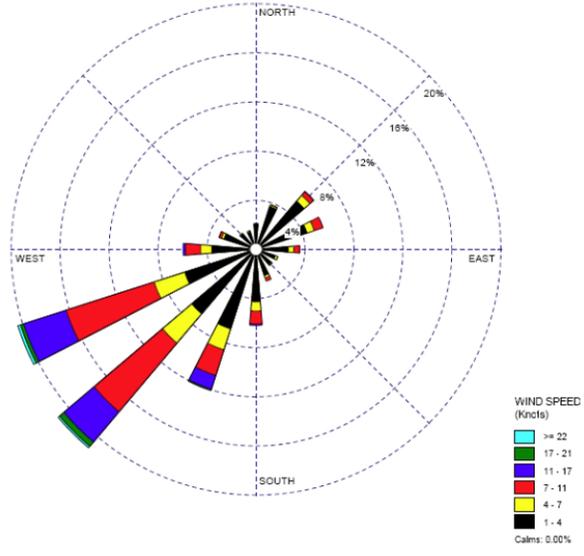
FIGURE 5-3

SOIL / TREE BARK SAMPLING LOCATIONS

PROJECT: 0100-008-900	DATE: AUG 28, 2007
REV: 0	BY: CRL CHECKED: ACK

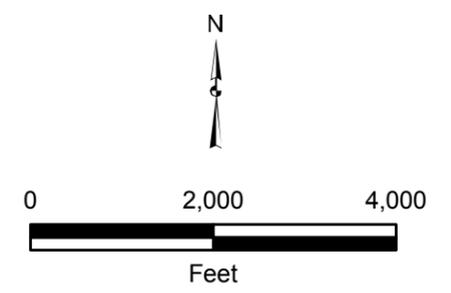


MEASURED WIND DATA FROM THE MINE,
JAN. 26 - AUG. 3, 2007



Legend

-  Air Monitoring Location
-  Meteorological Station
-  Open Water
-  Perennial Stream
-  Intermittent Stream



LIBBY MONTANA SUPERFUND SITE
OPERABLE UNIT 3

FIGURE 5-4

AIR MONITORING LOCATIONS

PROJECT: 0100-008-900	DATE: SEP 28, 2007
REV: 1	BY: CRL CHECKED: ACK

