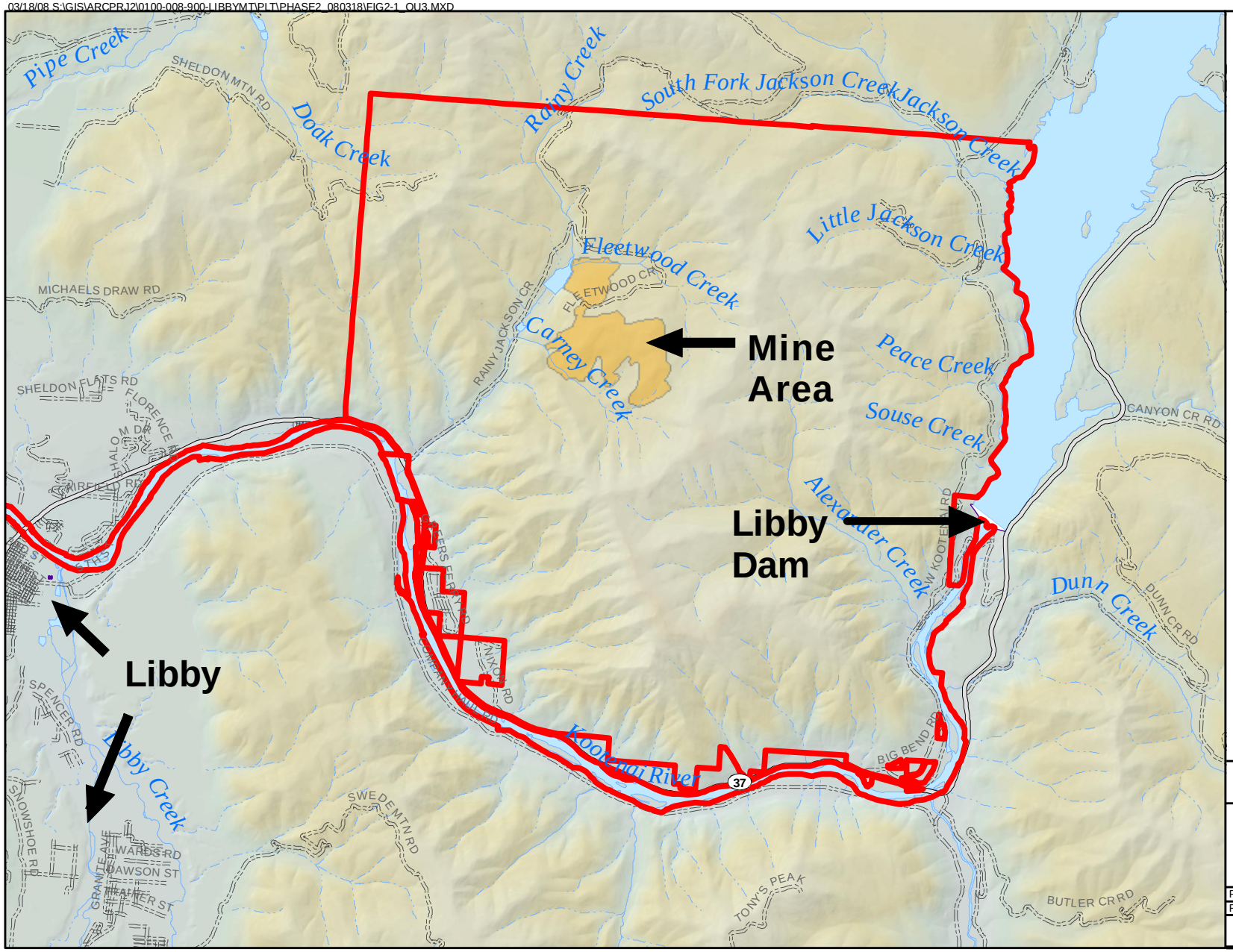
LIBBY ASBESTOS SUPERFUND SITE, OPERABLE UNIT 3
DATA SUMMARY REPORT: 2007 TO 2011

FIGURES – Sections 1 to 3

Revision 0 – November 2013

03/18/08 S:\GIS\ARCPRJ2\0100-008-900-LIBBYMT\PLT\PHASE2_080318\FIG2-1_OU3.MXD



Legend

- Operable Unit 3
- County Road
- Primary Road
- Open Water
- Perennial Stream
- Intermittent Stream
- Mined Area

N

0 1 2

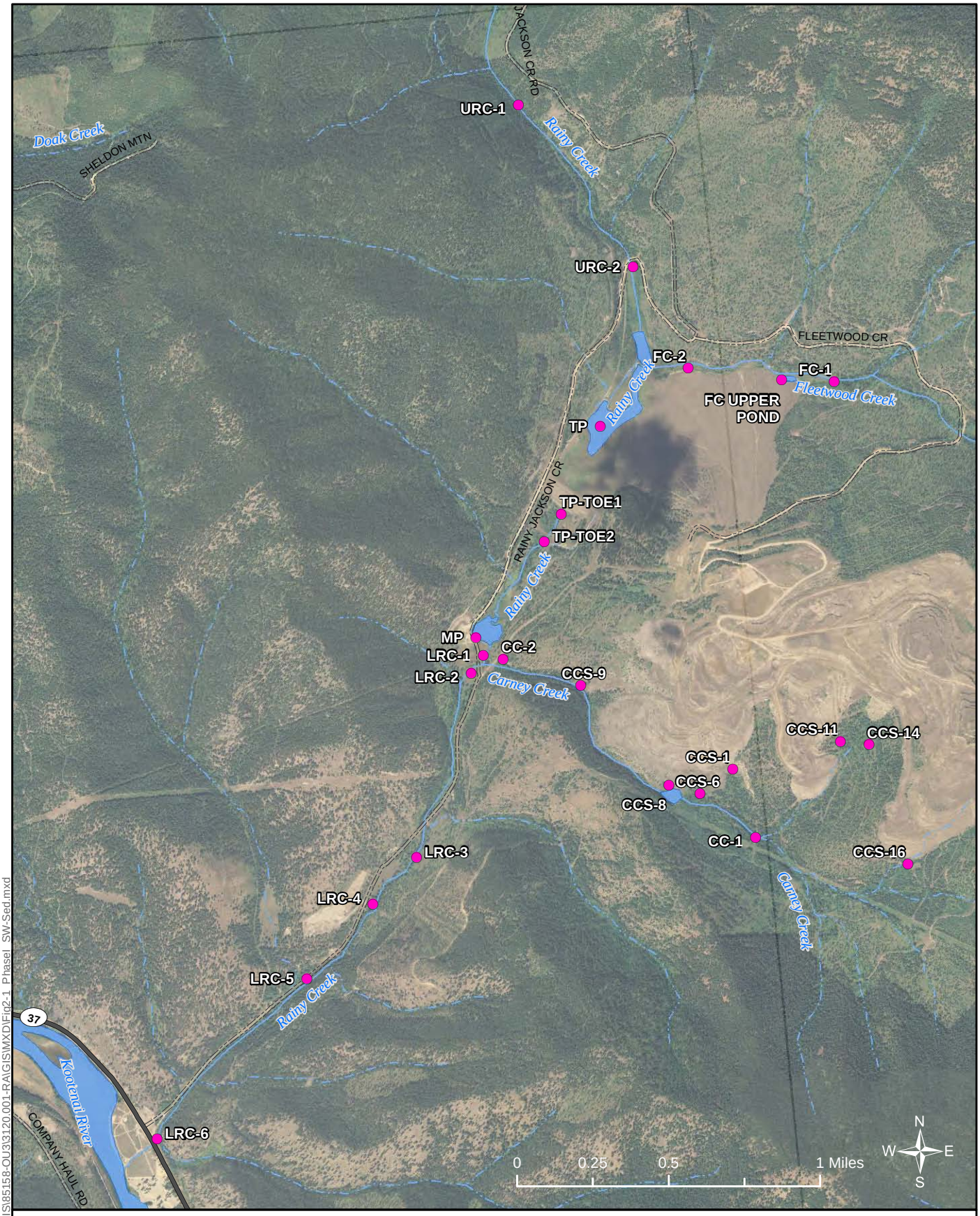
Miles

Libby Montana Superfund Site
Operable Unit 3

FIGURE 1-1

Operable Unit 3

PROJECT: 0100-008-900	MAR 18, 2008	
REV: 0	BY: VFS	CHECKED: ACK



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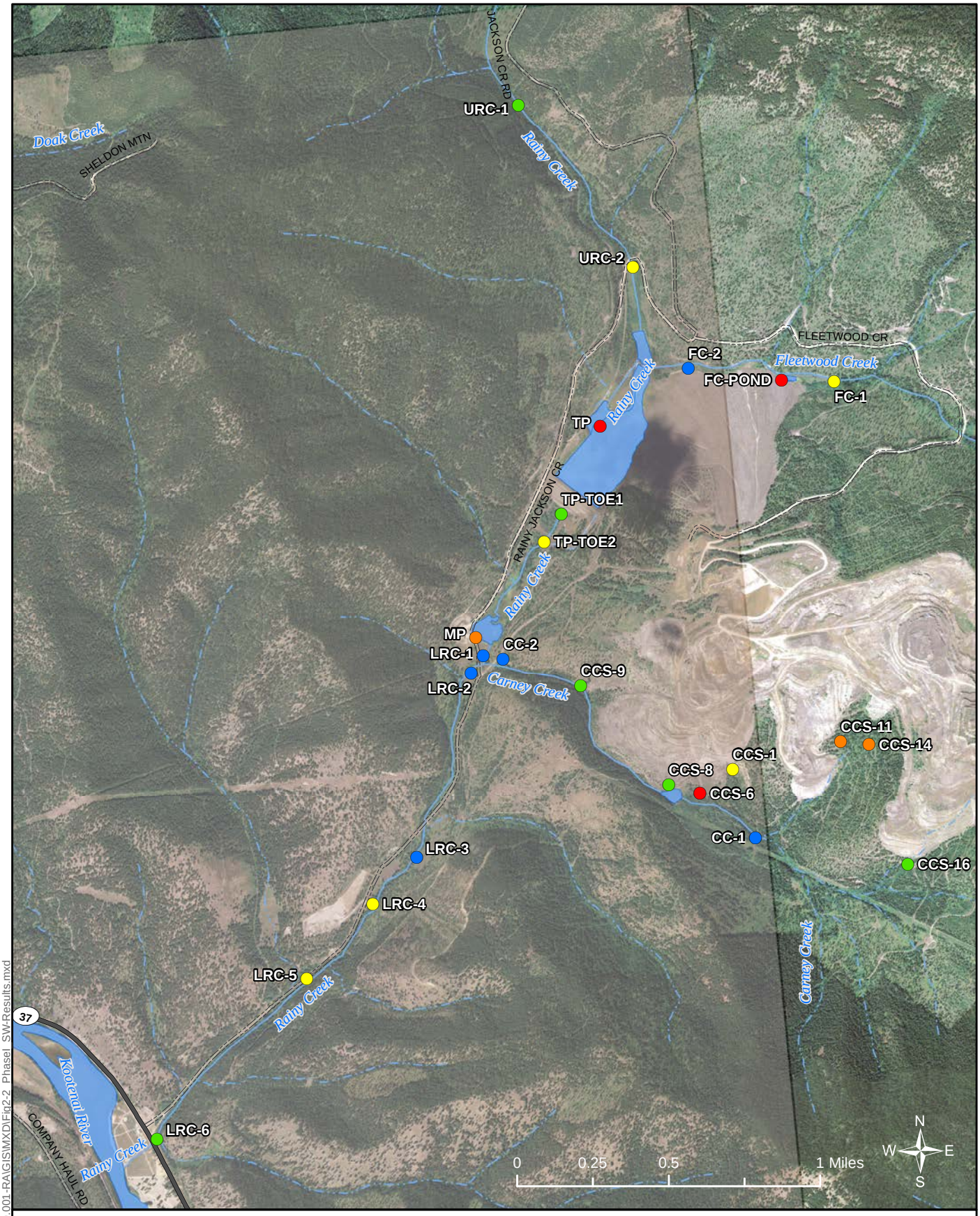
CDM Smith

Surface Water/Sediment Sampling Location
County Road
Primary Road
Perennial Stream
Intermittent Stream
Open Water

Figure 2-1
Phase 1 Surface Water / Sediment Sampling Locations



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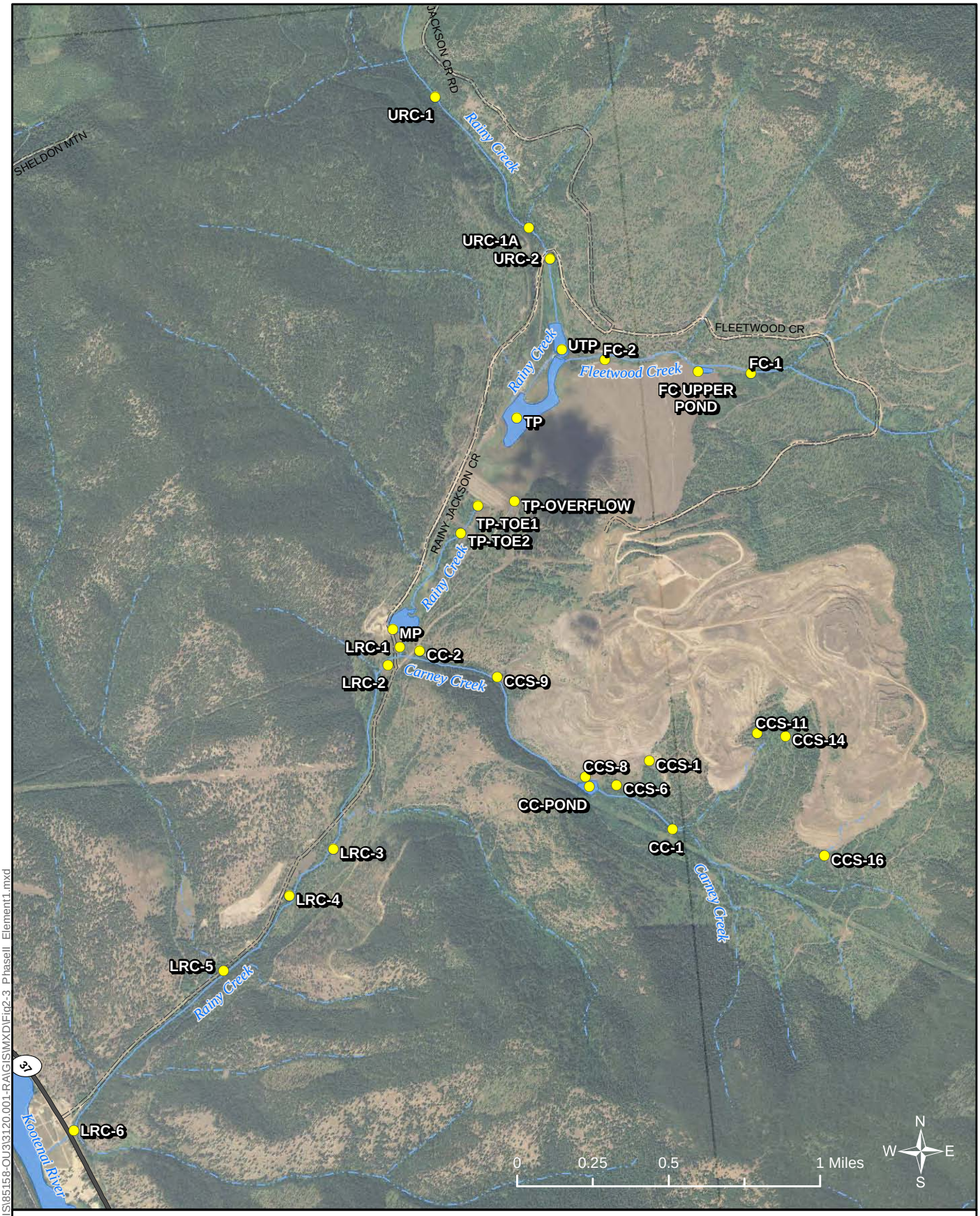
CDM Smith

Total LA (Libby Amphibole)
in Surface Water (million fibers per liter)

- 0
- > 0 - 1
- 1 - 10
- 10 - 100
- > 100

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

Figure 2-2
Asbestos (LA) Levels in Surface Water, Phase I



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CDM Smith

Surface Water/Sediment Sampling Location
County Road
Primary Road
Perennial Stream
Intermittent Stream
Open Water

Figure 2-3
Phase IIA: Sampling Locations in Rainy Creek Watershed Element 1

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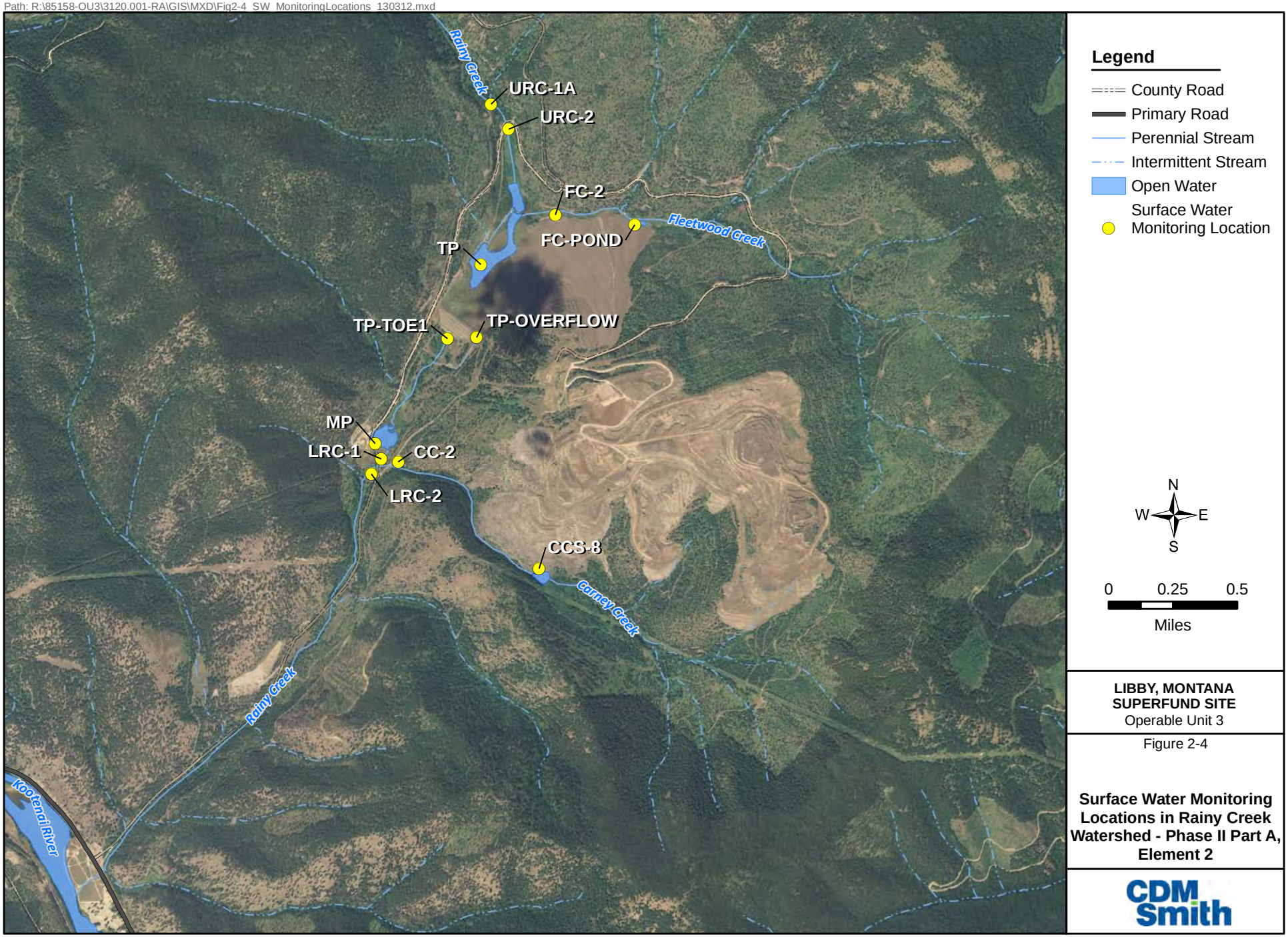
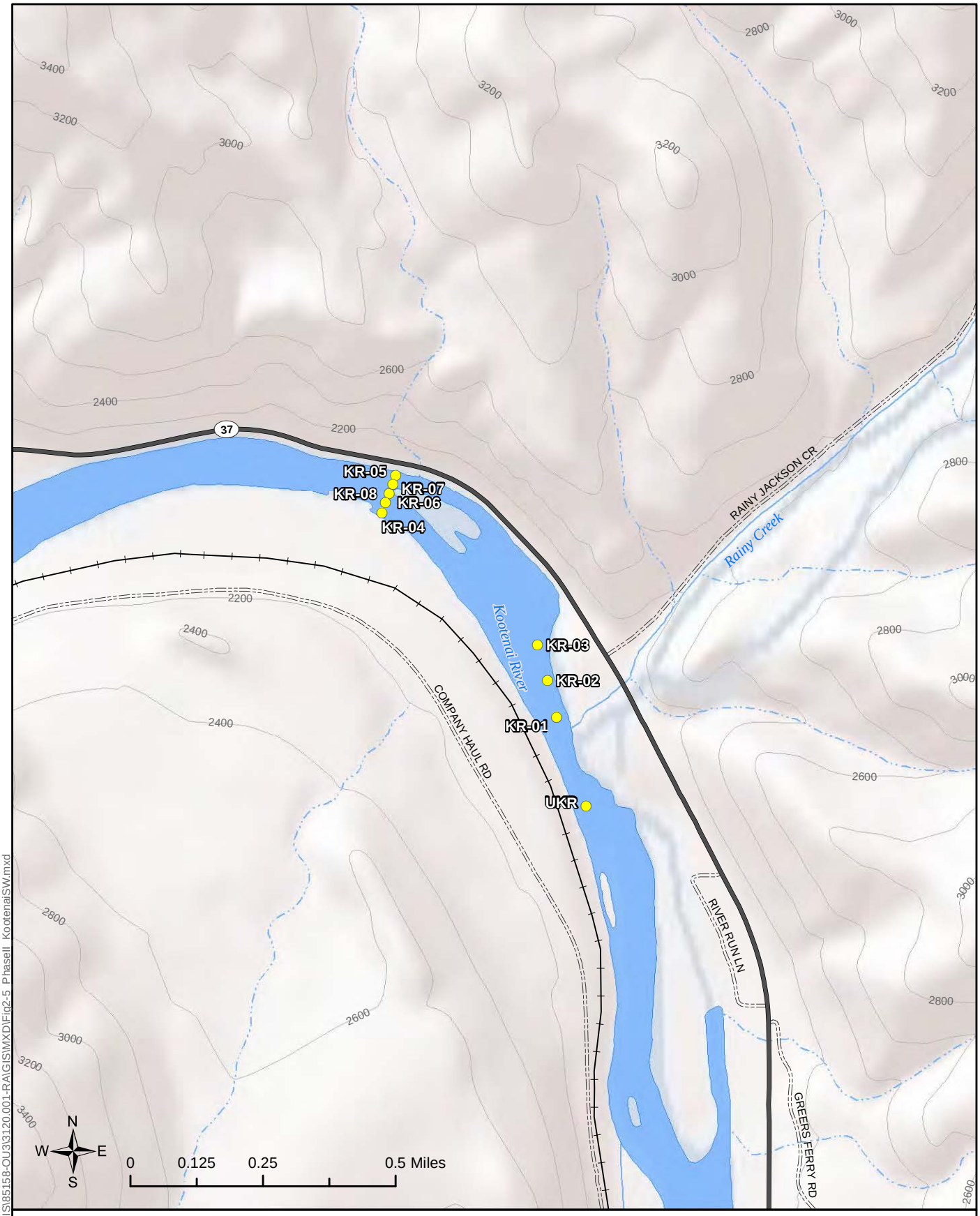


LIBBY, MONTANA SUPERFUND SITE
Operable Unit 3

Figure 2-4

Surface Water Monitoring Locations in Rainy Creek Watershed - Phase II Part A, Element 2

CDM Smith



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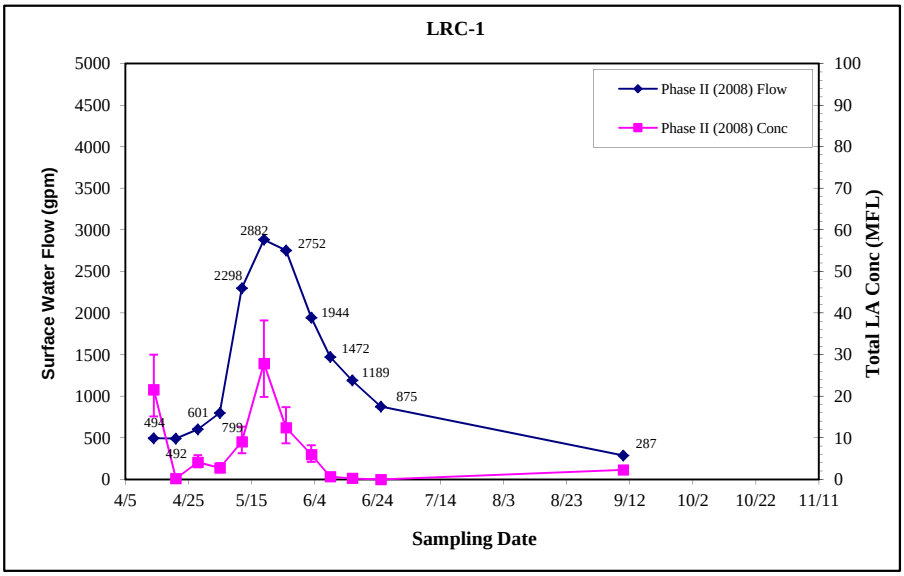
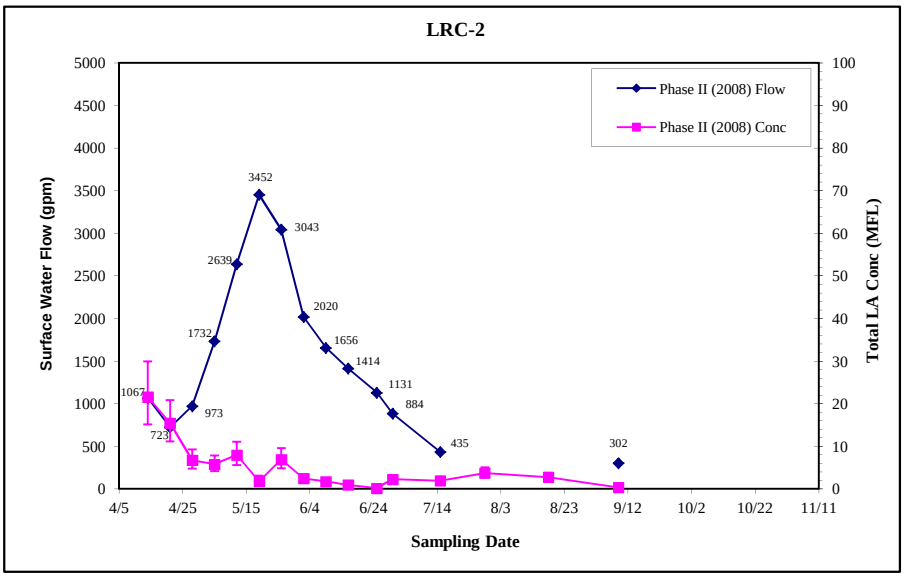
CDM Smith

Surface Water Monitoring Locations
County Road
Primary Road
Railroad
200ft Index Contour
Perennial Stream
Intermittent Stream
Open Water

Figure 2-5
Surface Water Sampling Locations - Kootenai River

FIGURE 2-6
SURFACE WATER FLOW & LA CONCENTRATION FROM PHASE II
LOWER RAINY CREEK





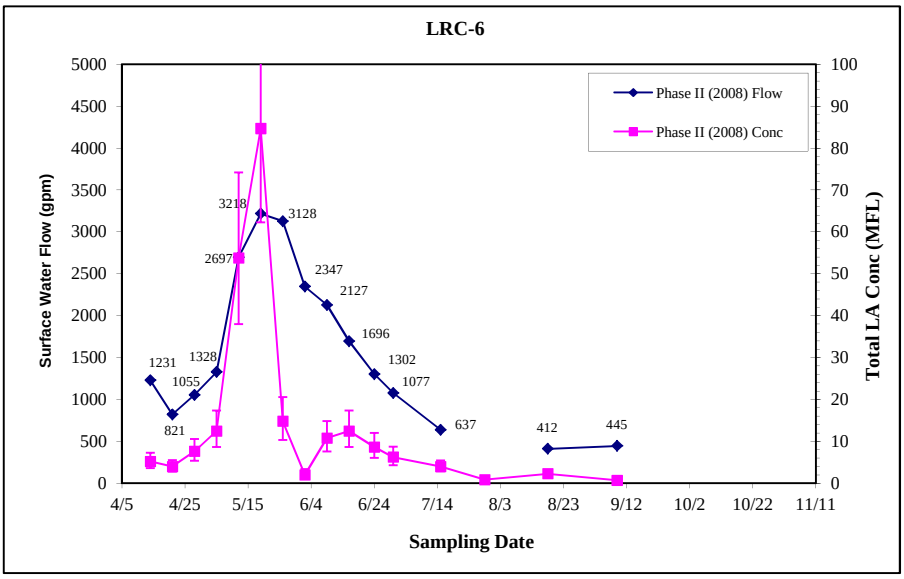
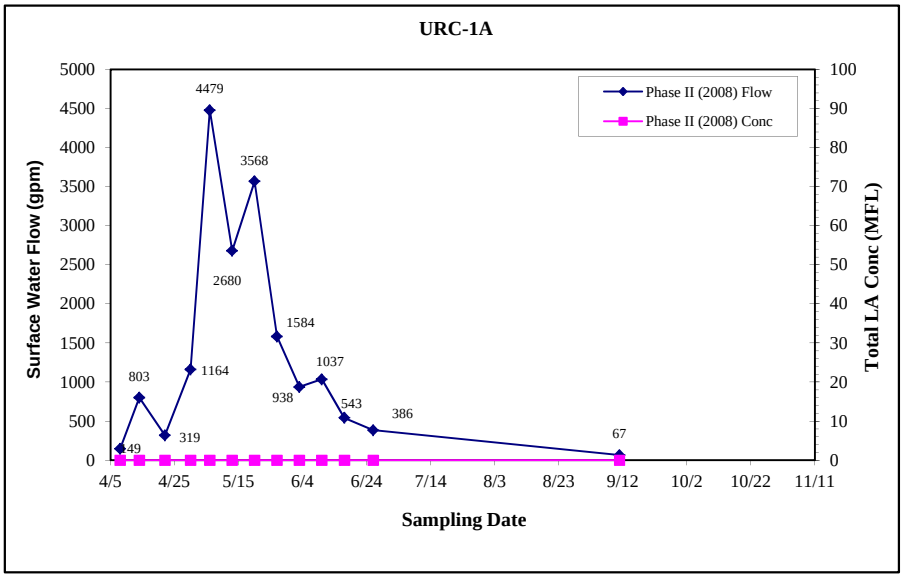
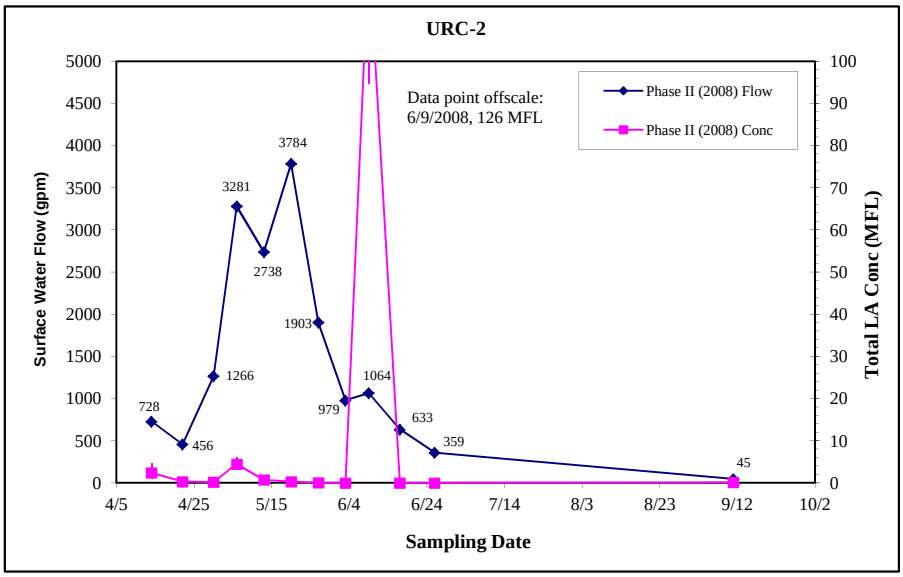


FIGURE 2-7
SURFACE WATER FLOW & LA CONCENTRATION FROM PHASE II
UPPER RAINY CREEK & FLEETWOOD CREEK





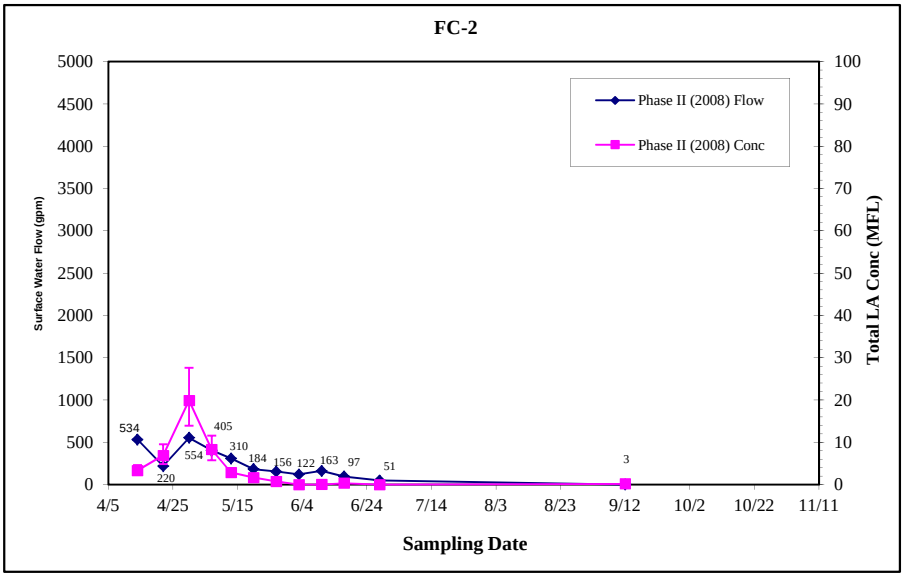
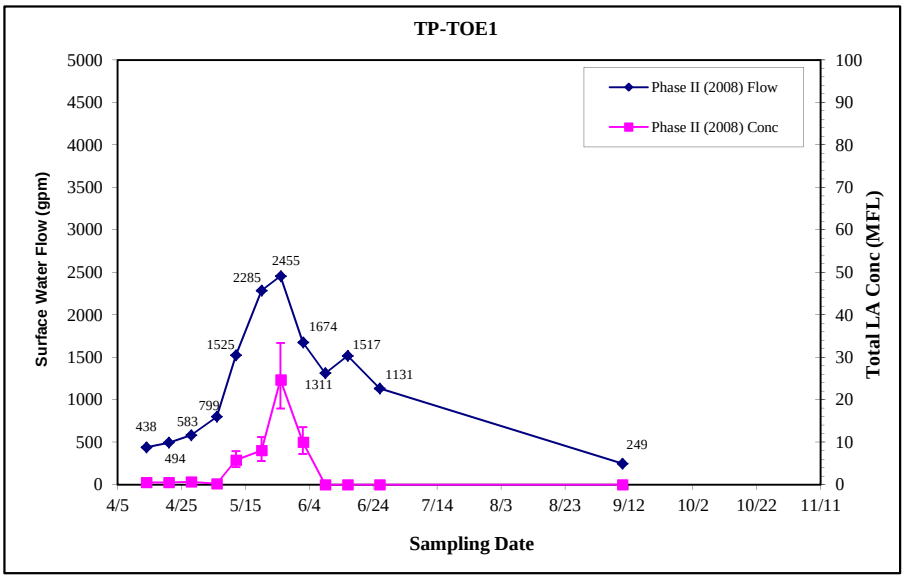
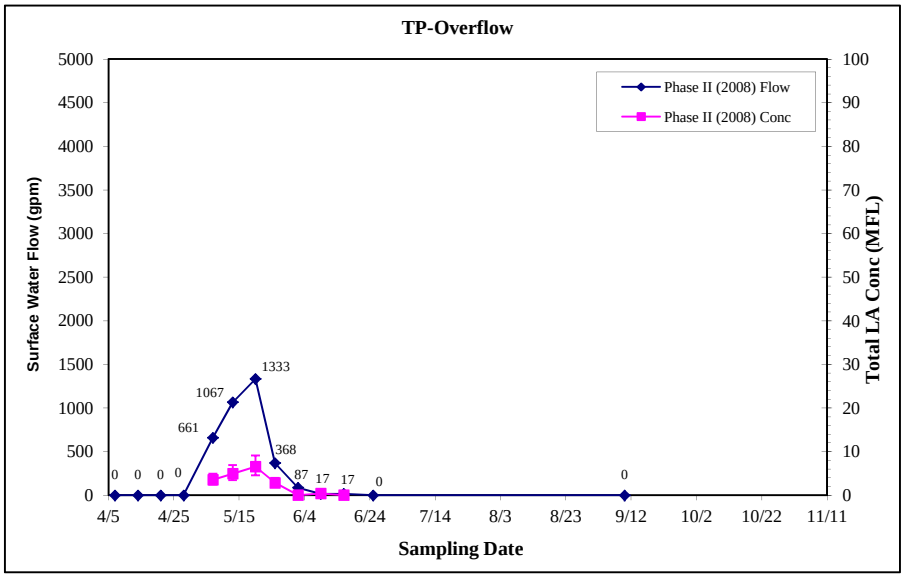
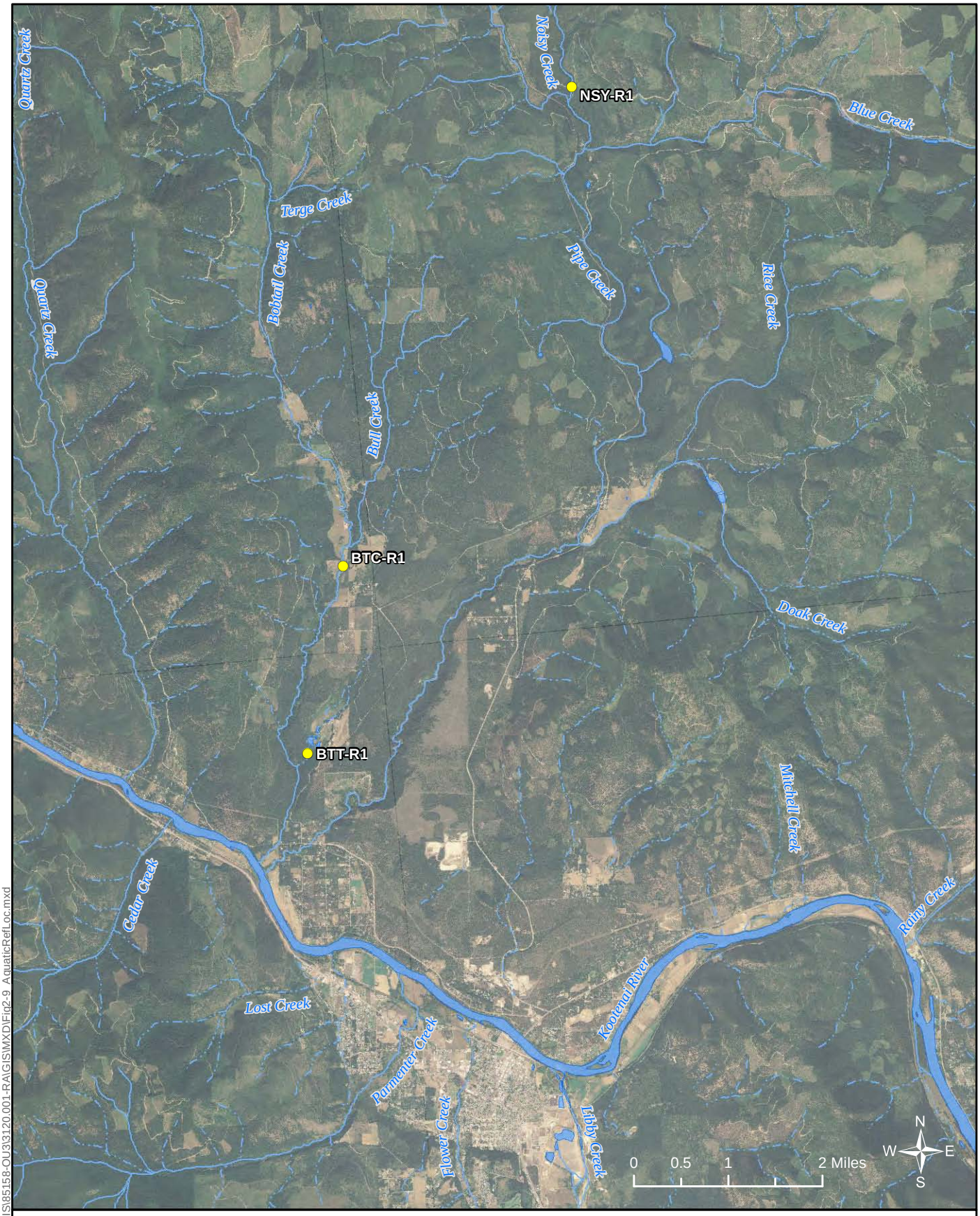


FIGURE 2-8
SURFACE WATER FLOW & LA CONCENTRATION FROM PHASE II TAILINGS IMPOUNDMENT







Aquatic Reference Location

Open Water

Perennial Stream

Intermittent Stream

Figure 2-9
Aquatic Reference Locations

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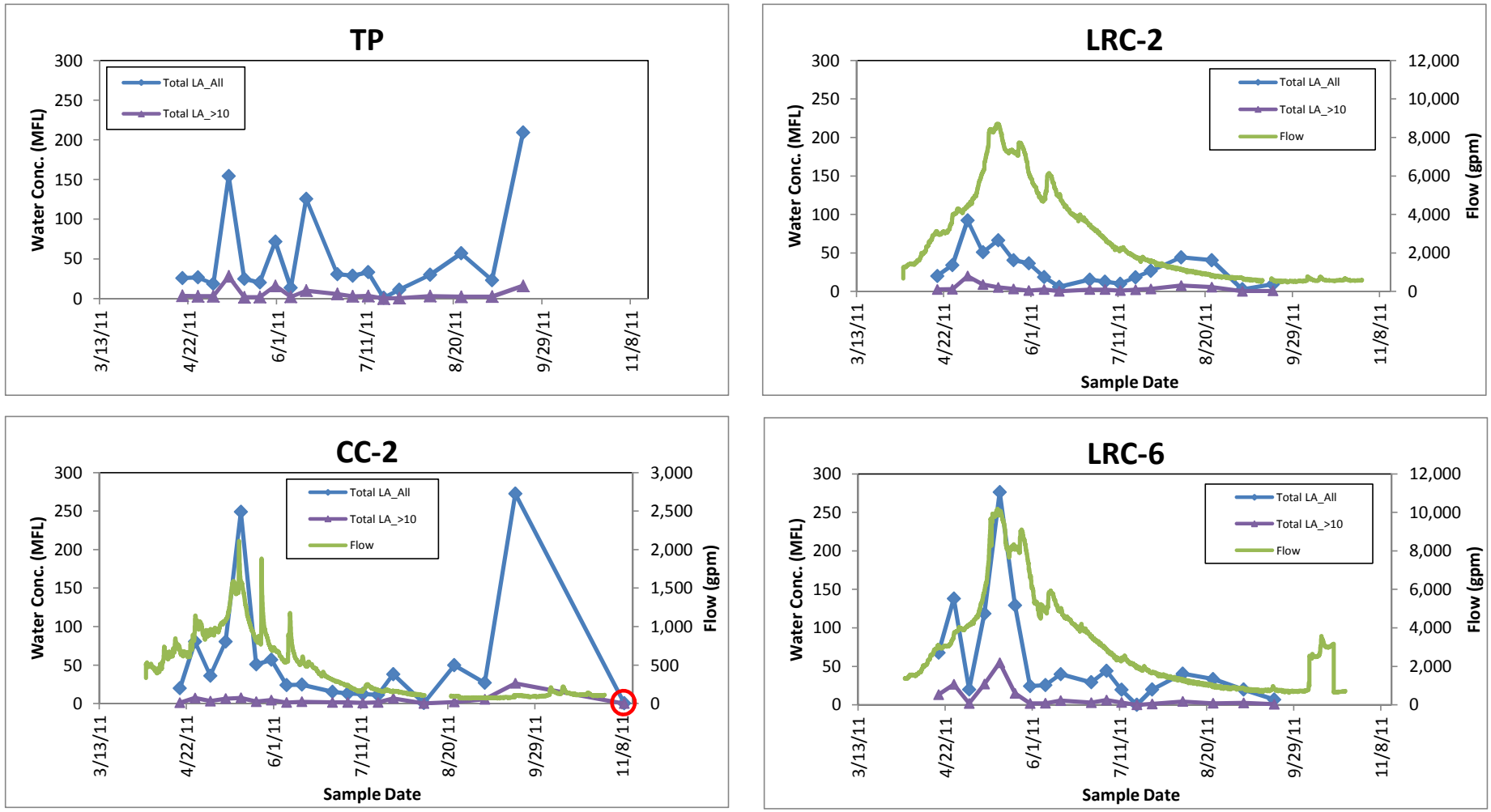
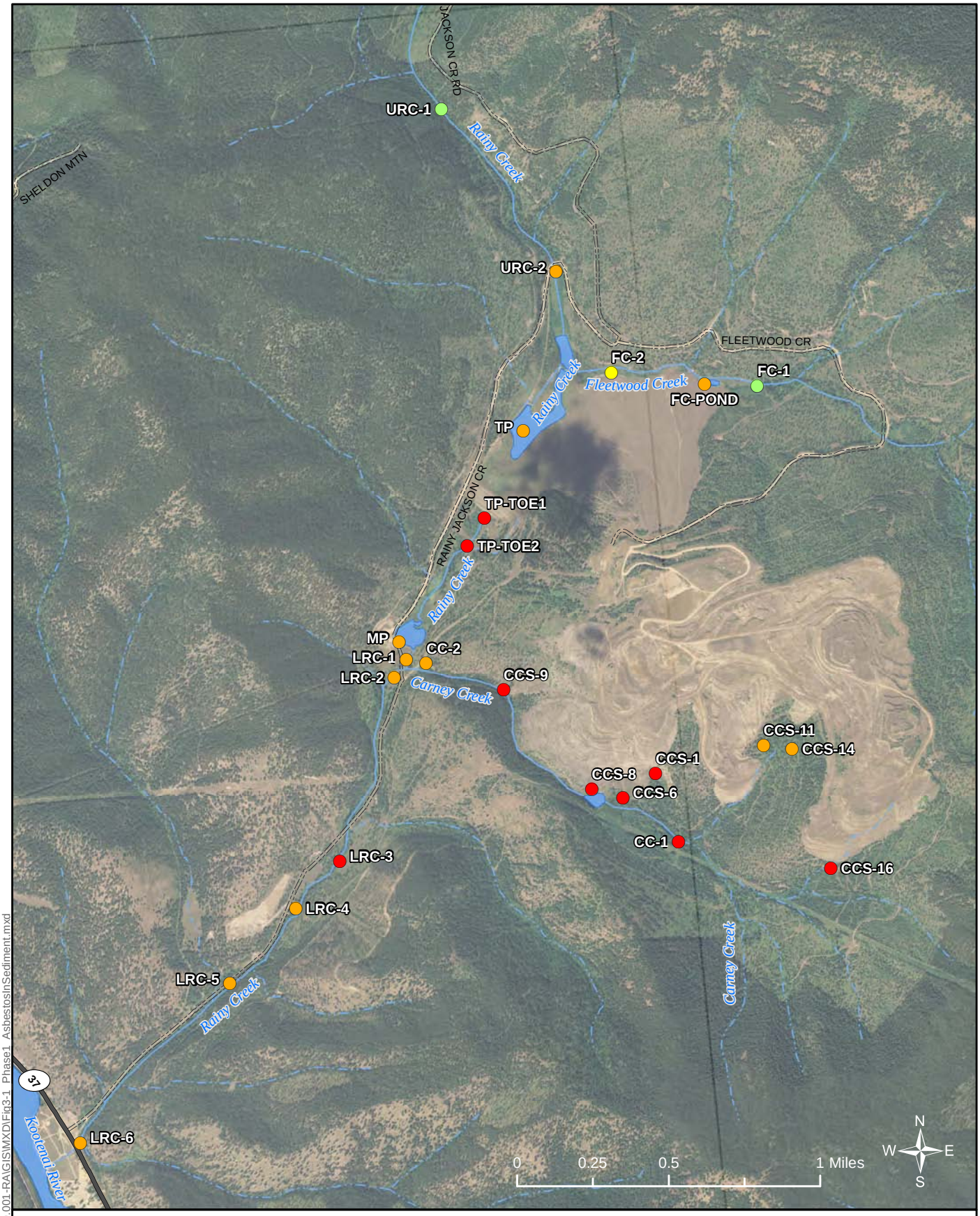
FIGURE 2-10. TEMPORAL DISTRIBUTION OF LA AND FLOW MEASUREMENTS, PHASE IV PART B



○ =opportunistic sample collected on 11/9/11.



CDM Smith

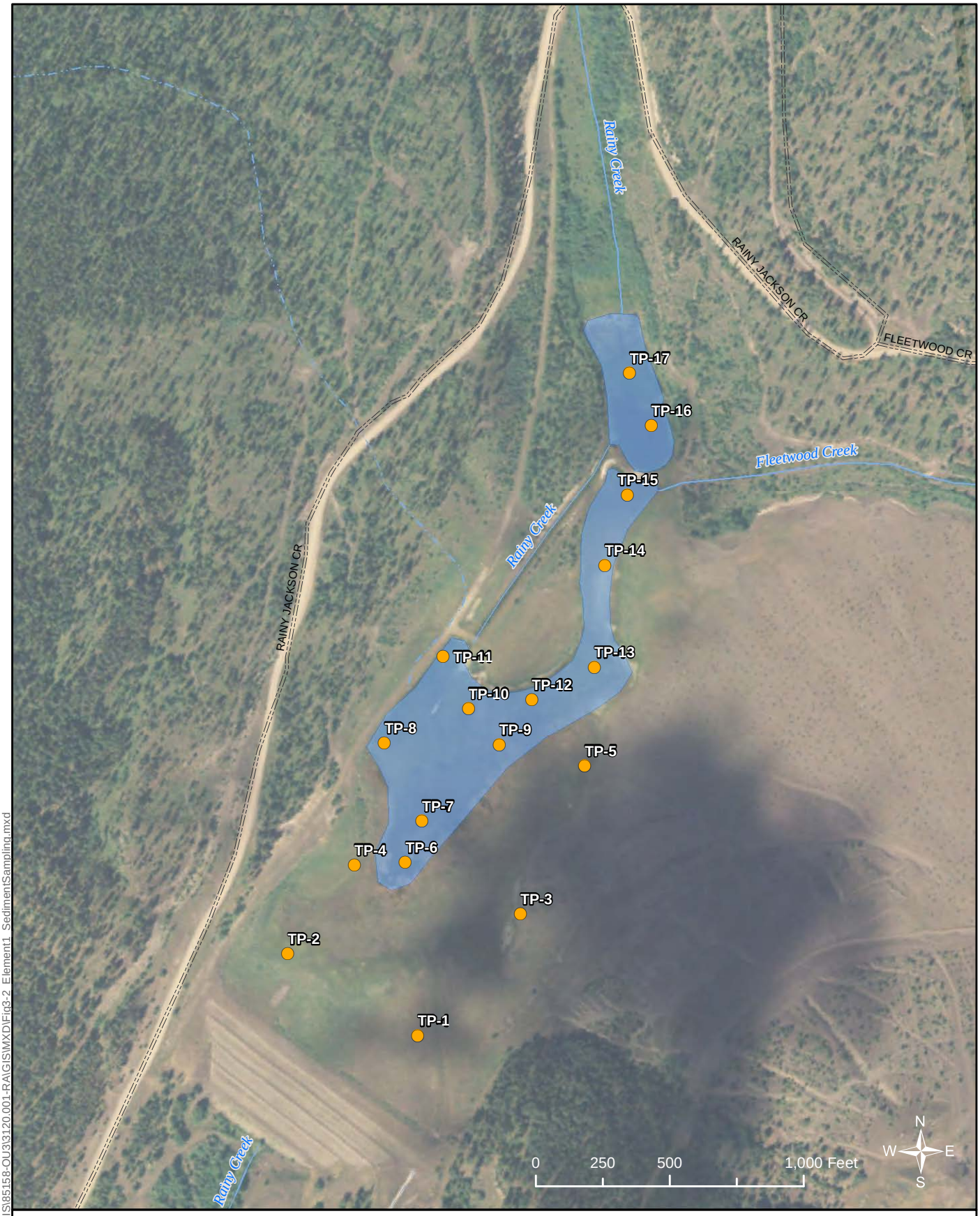
Asbestos in Sediment
(MFLA% fine - Percent Mass Fraction)

- A (ND)
- B2 (<1%)
- B1 (TR)
- C (>= 1%)

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

Figure 3-1
Asbestos Levels in Sediment, Phase I

Path: R:\85158-OU3\3120.001-RA\GIS\MXD\Fig3-1_Phase1_AsbestosinSediment.mxd



Tailings Pond (TP) Sediment Locations
County Road
Primary Road
Perennial Stream
Intermittent Stream
Open Water

Figure 3-2
Element I Sediment Sampling Locations at Tailings Pond

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CDM Smith

Sediment Locations
County Road
Primary Road
Perennial Stream
Intermittent Stream
Open Water

Figure 3-3
Kootenai River Sediment Sampling Locations

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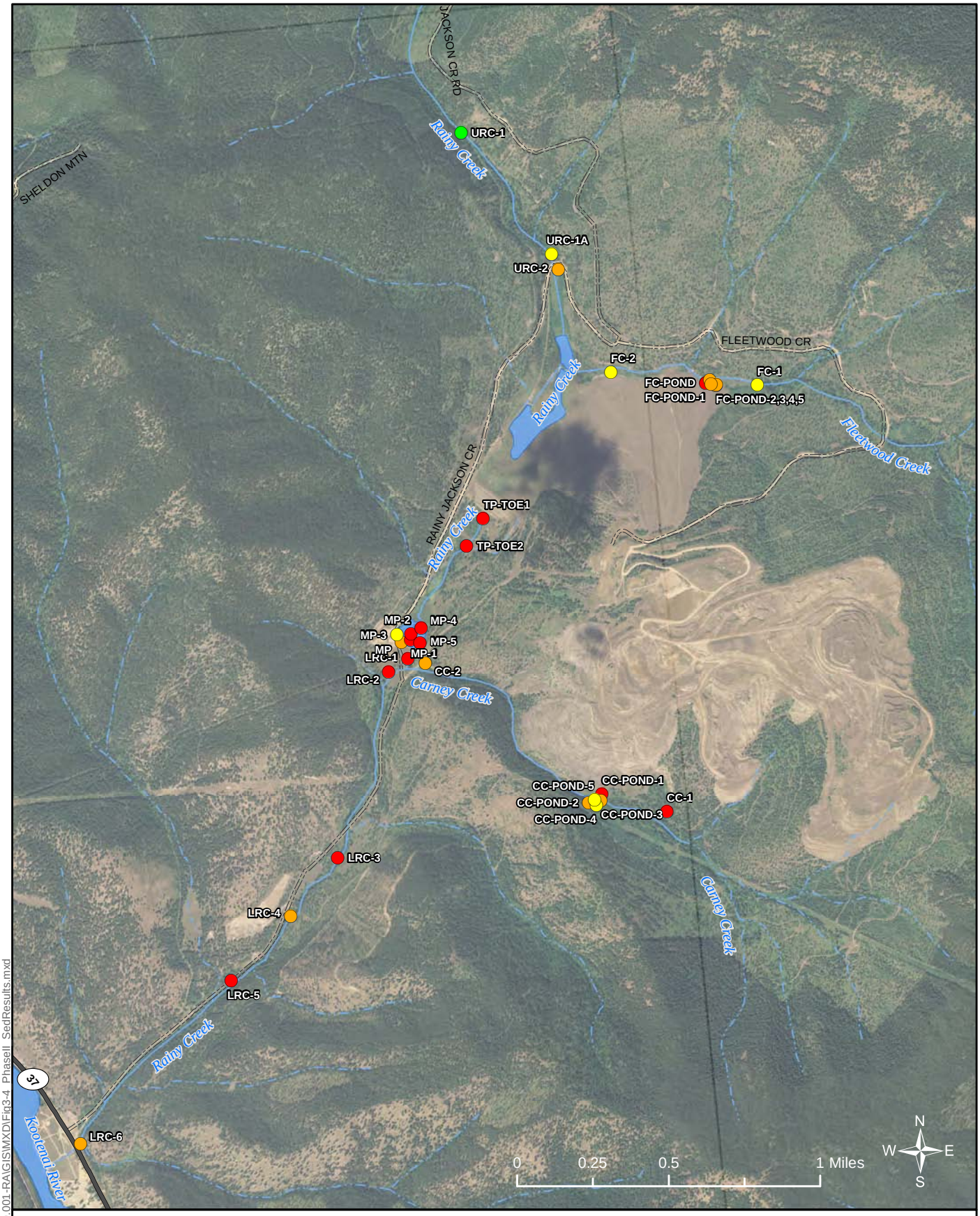

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CDM Smith

Asbestos in Sediment
(MFLA% fine - Percent Mass Fraction)

- A (ND)
- B2 (<1%)
- B1 (TR)
- C (>=1%)

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

Figure 3-4
Asbestos Levels in Sediment, Phase II Part A