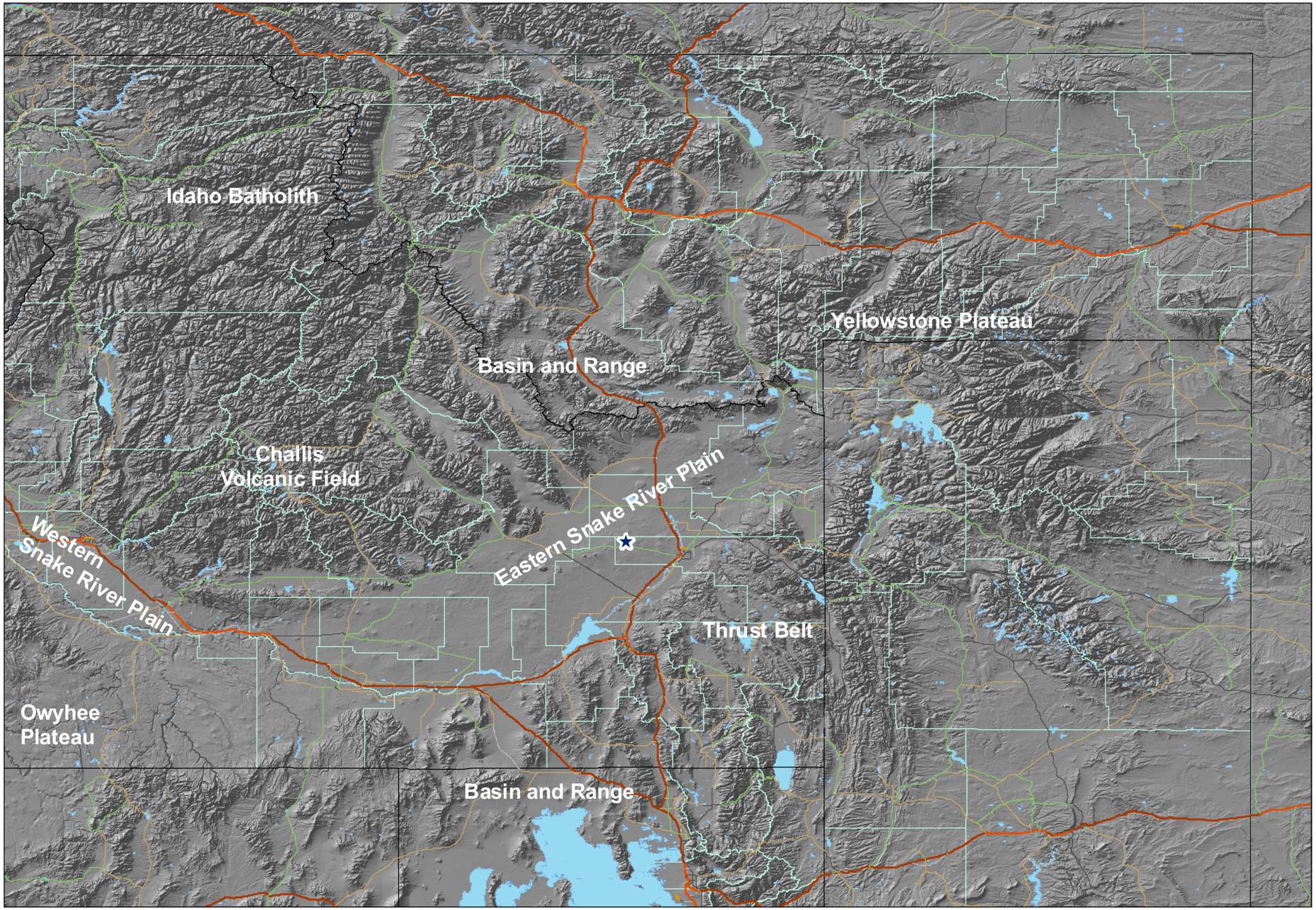
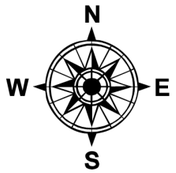
Figures



Map Description

★ Eagle Rock Enrichment Facility

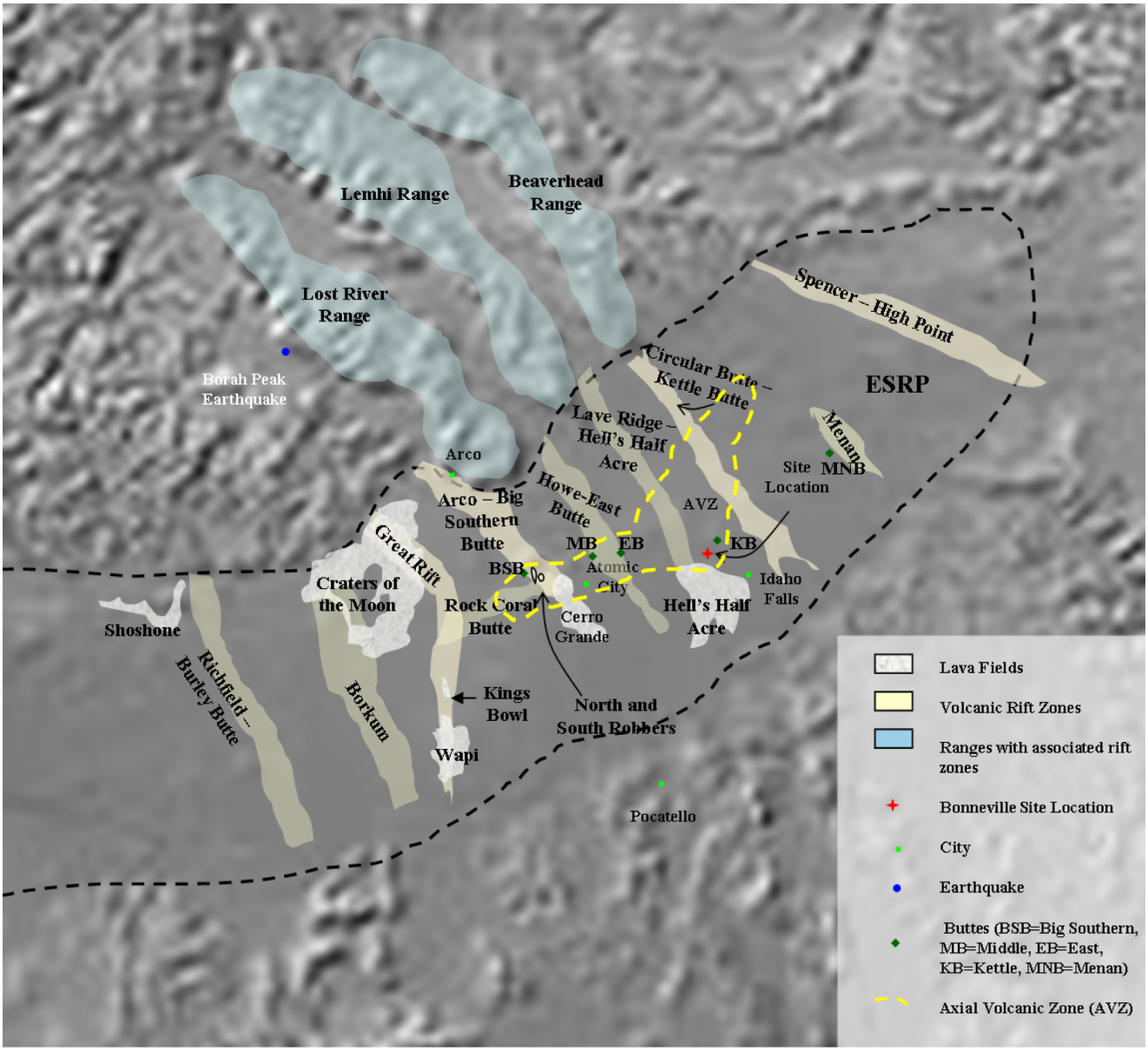


Shaded Relief Base Map from
ESRI ArcGIS 9 Media Kit

Probabilistic Seismic Hazard Assessment for the Eagle Rock Enrichment Facility	Regional Physiographic Regions
WGE, Inc. Oct. 28, 2008	**FIGURE 1**

Eon		Era	Period		Epoch	Ma
Phanerozoic		Cenozoic	Quarternary		Holocene	0.01
					Pleistocene	1.8
			Tertiary	Neogene	Pliocene	5.3
					Milocene	23.7
				Paleogene	Oligocene	33.7
					Eocene	54.8
					Paleocene	65.0
		Mesozoic	Cretaceous			144
			Jurassic			206
			Triassic			248
		Paleozoic	Permian			290
			Pennsylvanian			323
			Mississippian			354
			Devonian			417
			Silurian			443
			Ordovician			490
			Cambrian			543
Precambrian	Proterozoic					2500
	Archean					4500

Probabilistic Seismic Hazard Assessment for the Eagle Rock Enrichment Facility	Geologic Time Scale
WGE, Inc. Oct. 28, 2008	**FIGURE 2**

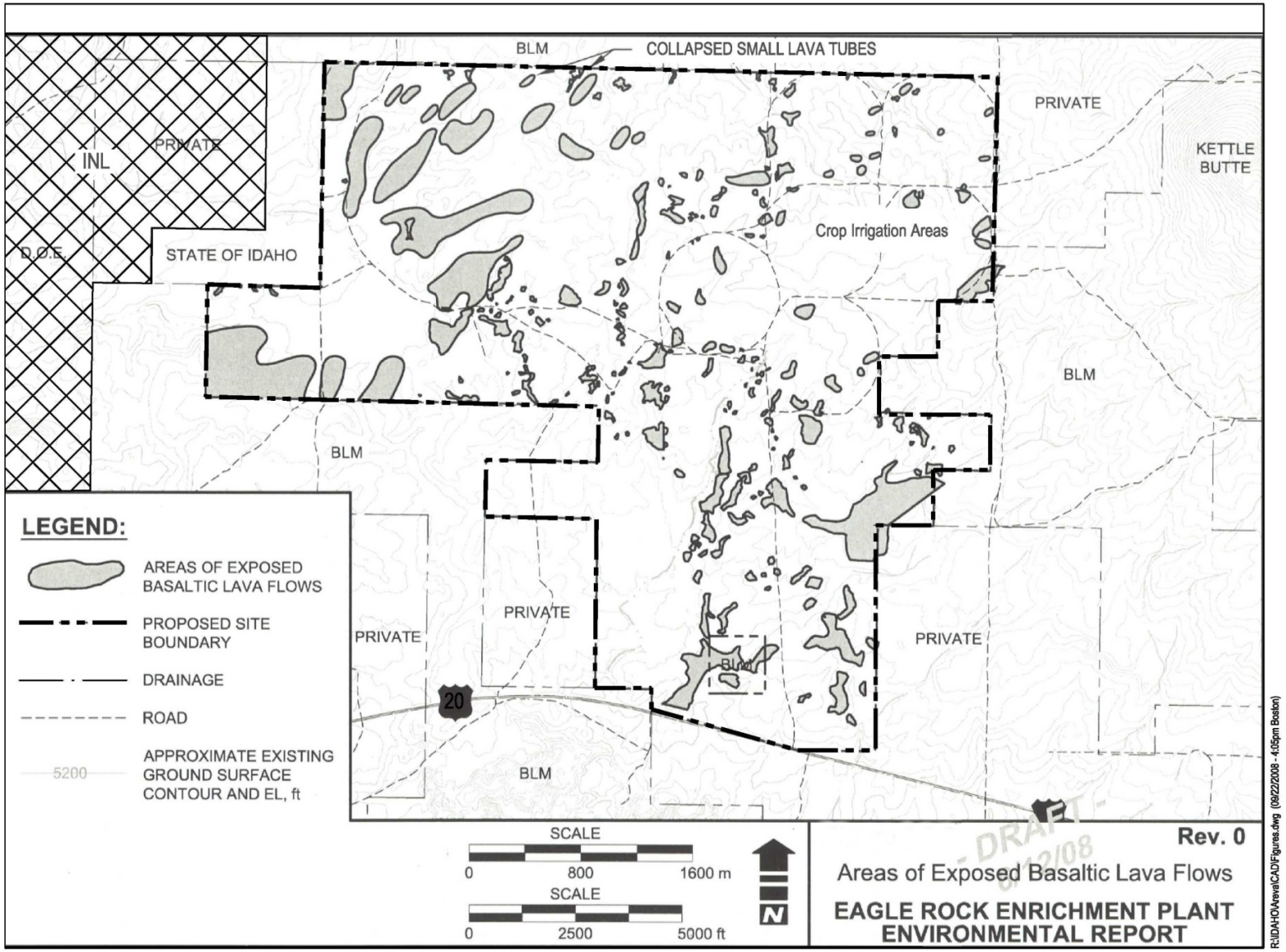


SCALE

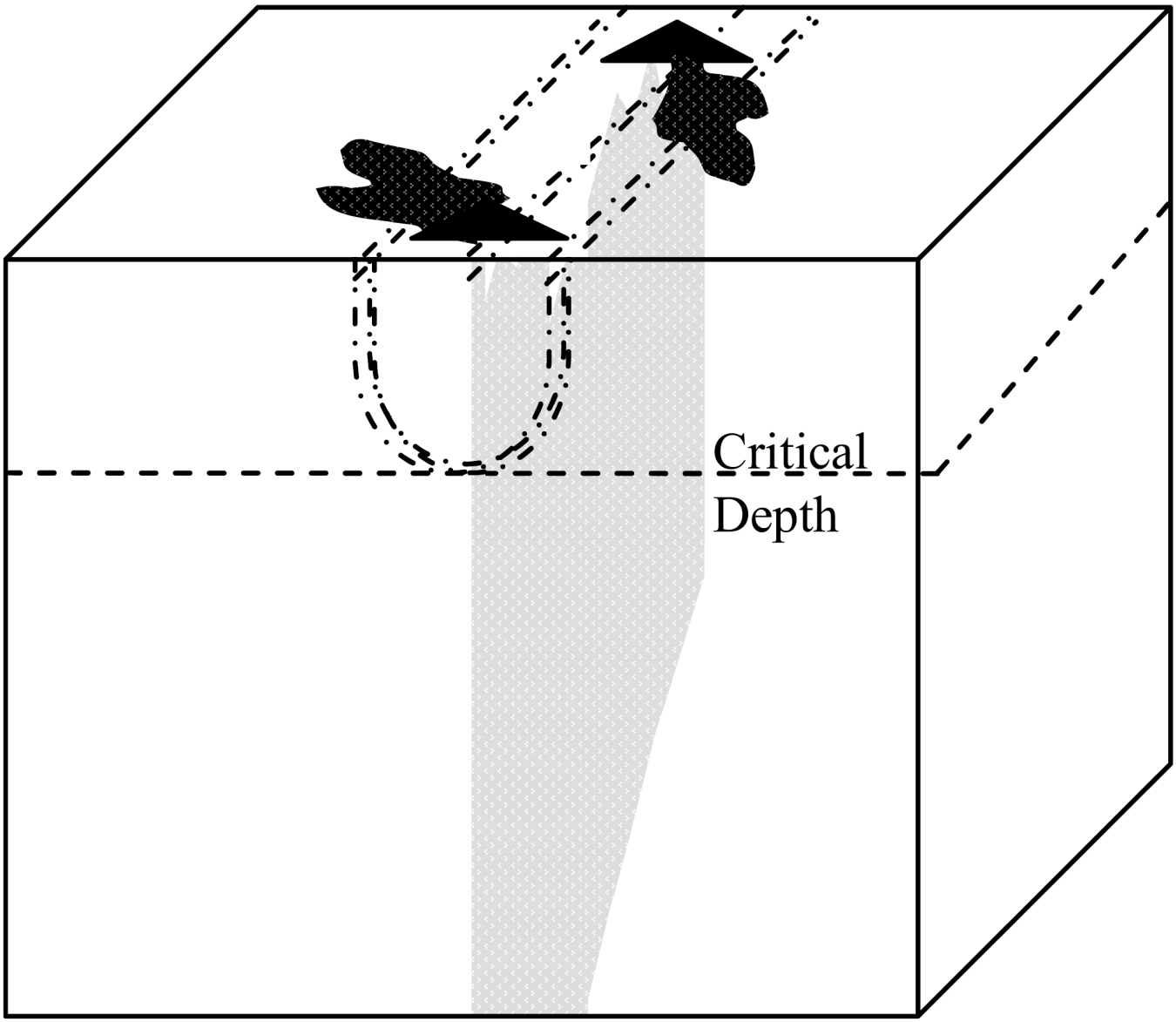
0 60 (km)

0 40 (mi)

Probabilistic Seismic Hazard Assessment for the Eagle Rock Enrichment Facility	Local Geology
WGE, Inc. Oct. 28, 2008	**FIGURE 3**

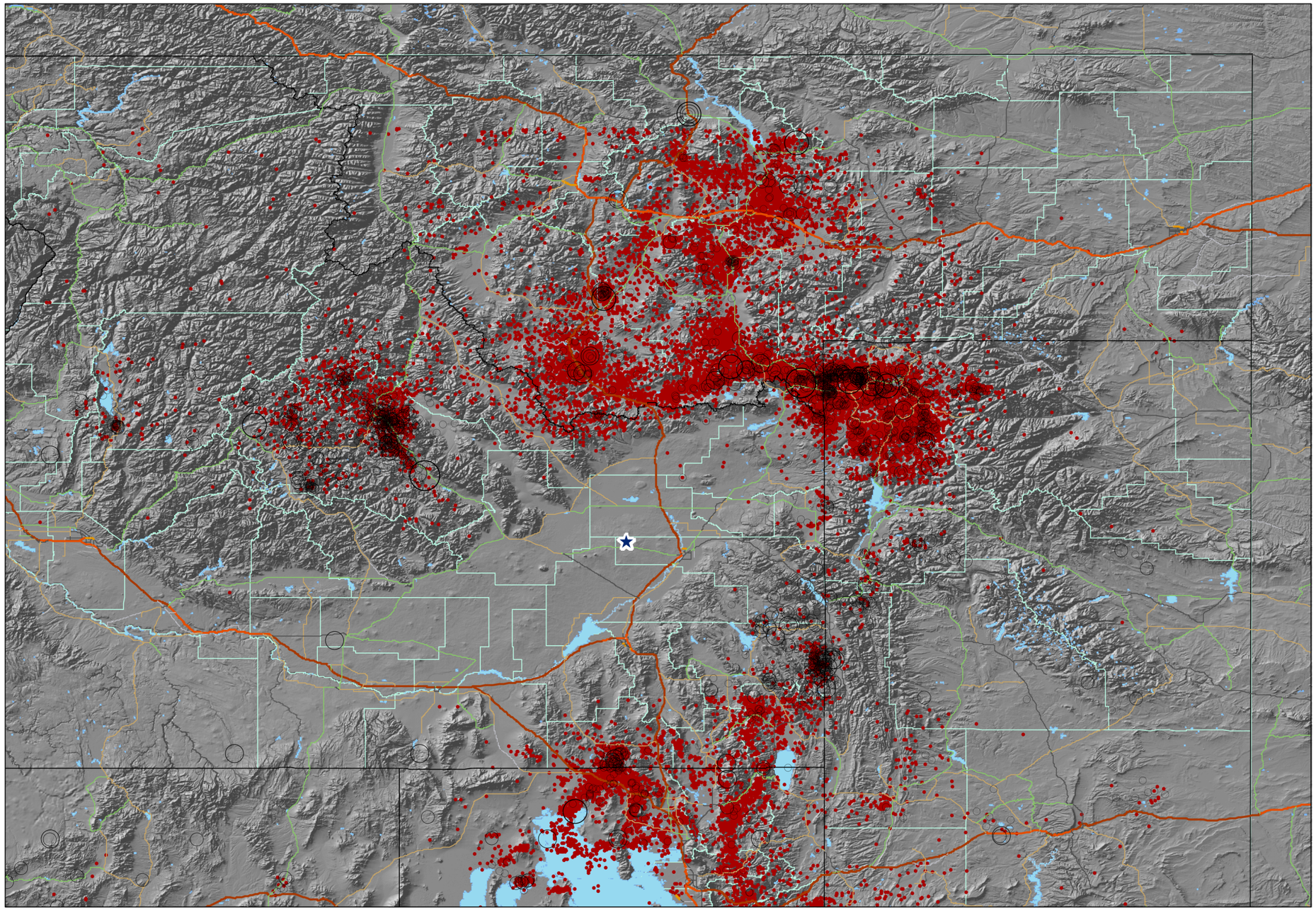


Probabilistic Seismic Hazard Assessment for the Eagle Rock Enrichment Facility	Areas of Exposed Basaltic Lava Flows EREF Site
WGE, Inc. Oct. 28, 2008	**FIGURE 4**



Dike (gray) emplacement model with tension cracks (dashed-dot lines). Critical depth (dashed) based on depth at which stresses begin to produce tension cracks at depth. Modified from Kuntz et al. (2002).

Probabilistic Seismic Hazard Assessment for the Eagle Rock Enrichment Facility	Model for Dike Emplacement
WGE, Inc. Oct. 28, 2008	**FIGURE 5**



Map Description

★ SITE

Magnitude >= 3

MAG

- 3.0 - 4.0
- 4.1 - 5.0
- 5.1 - 6.0
- 6.1 - 7.0
- 7.1 - 8.0

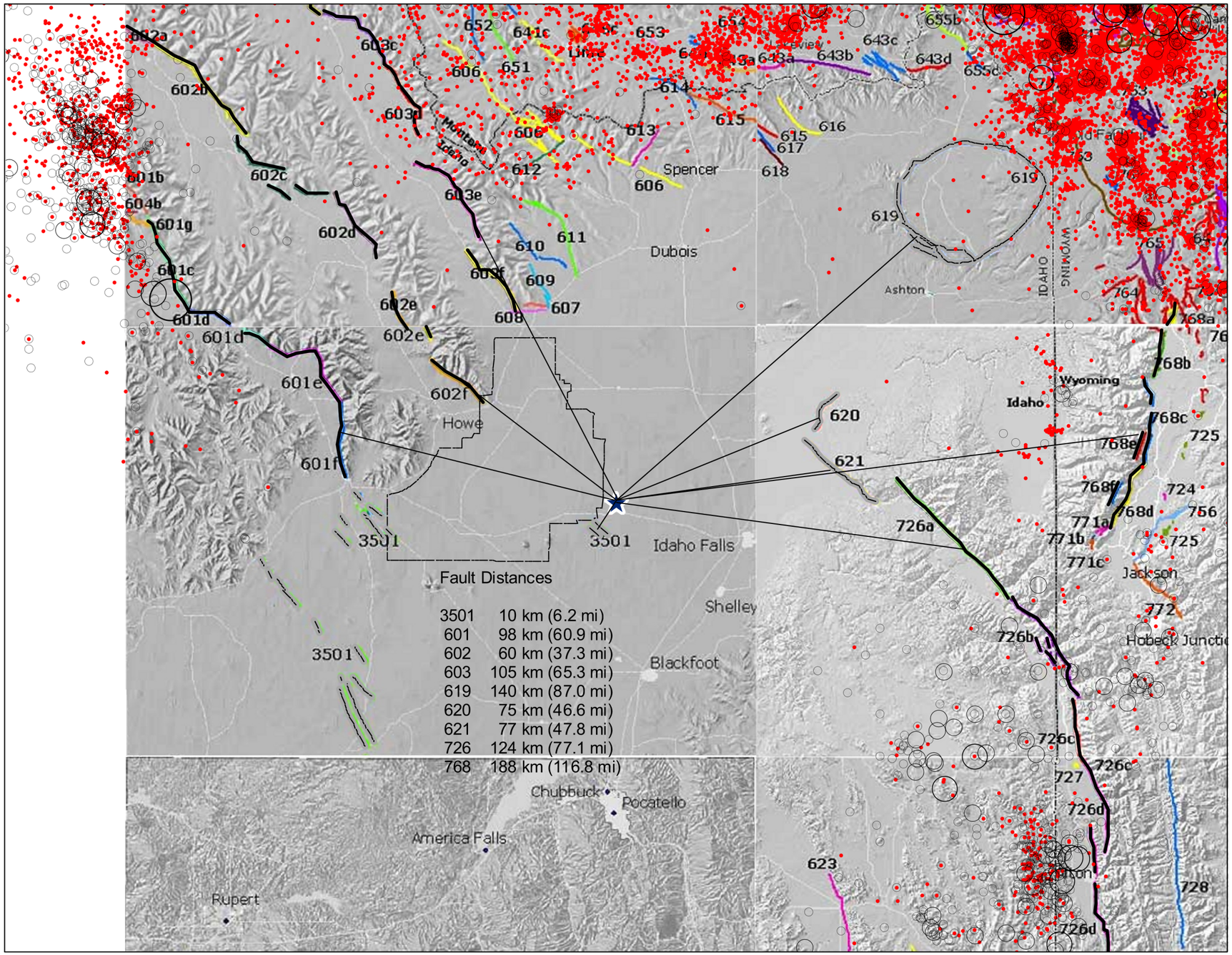
• Magnitude <3

N
W E
S

0 25 50 100 Miles

0 25 50 100 Kilometers

Probabilistic Seismic Hazard Assessment for the Eagle Rock Enrichment Facility	Regional Seismicity Through June 2008
WGE, Inc. Oct. 28, 2008	**FIGURE 6**



Map Description

- ★ SITE
- INL
- Magnitude >= 3.0
- MAG
  - 3.0 - 4.0
  - 4.1 - 5.0
  - 5.1 - 6.0
  - 6.1 - 7.0
  - 7.1 - 8.0
- Magnitude < 3.0
- Q 601 Lost River Fault
- Q 602 Lemhi Fault
- Q 603 Beaverhead Fault
- Q 619 Island Park Caldera
- Q 620 Rexburg Fault
- Q 621 Heise Fault
- Q 726 Grand Valley Fault
- Q 768 Teton Fault
- Q 3501 Idaho Rift System Faults

Probabilistic Seismic Hazard Assessment for the Eagle Rock Enrichment Facility	Regional Quaternary Faults
WGE, Inc. Oct. 28, 2008	**FIGURE 7**