

2008

PLATE 1

This topographic map depicts the Mount St. Helens area, showing the impact of the 1980 eruption. The map features contour lines, elevation markers, and various geographical features. Key locations include Mount St. Helens, Spirit Lake, and the town of Kelso. The map is color-coded to show different types of terrain and vegetation. A scale bar at the bottom indicates distances in miles and kilometers. The map is labeled with 'A' and 'B' at the bottom corners.

Base map by United States Geological Survey

Revised by USGS and OSN/DGMA and State of Oregon

Topographic contour from imagery dated 1991
100-foot contour interval. Note: After 1991, the
National Contour Interval was changed to 10
feet. The 100-foot contour interval was used
for the 1991 data. The 10-foot contour interval
was used for the 1991 data. The 10-foot contour
interval was used for the 1991 data. The 10-foot
contour interval was used for the 1991 data.

UTM GRID AND 1983 MAGNETIC NORTH
DECLINATION AT CENTER OF SHEET

CONTour INTERVAL: 10 FEET

OSN/DGMA LOCATION

ACCORDING TO OSN/DGMA LINES

[illegible]

[†]Time scale after Gradstein F., Ogg, J., and Smith A., eds., 2004, A geologic time scale 2004, Cambridge, Cambridge University Press, 569 p.

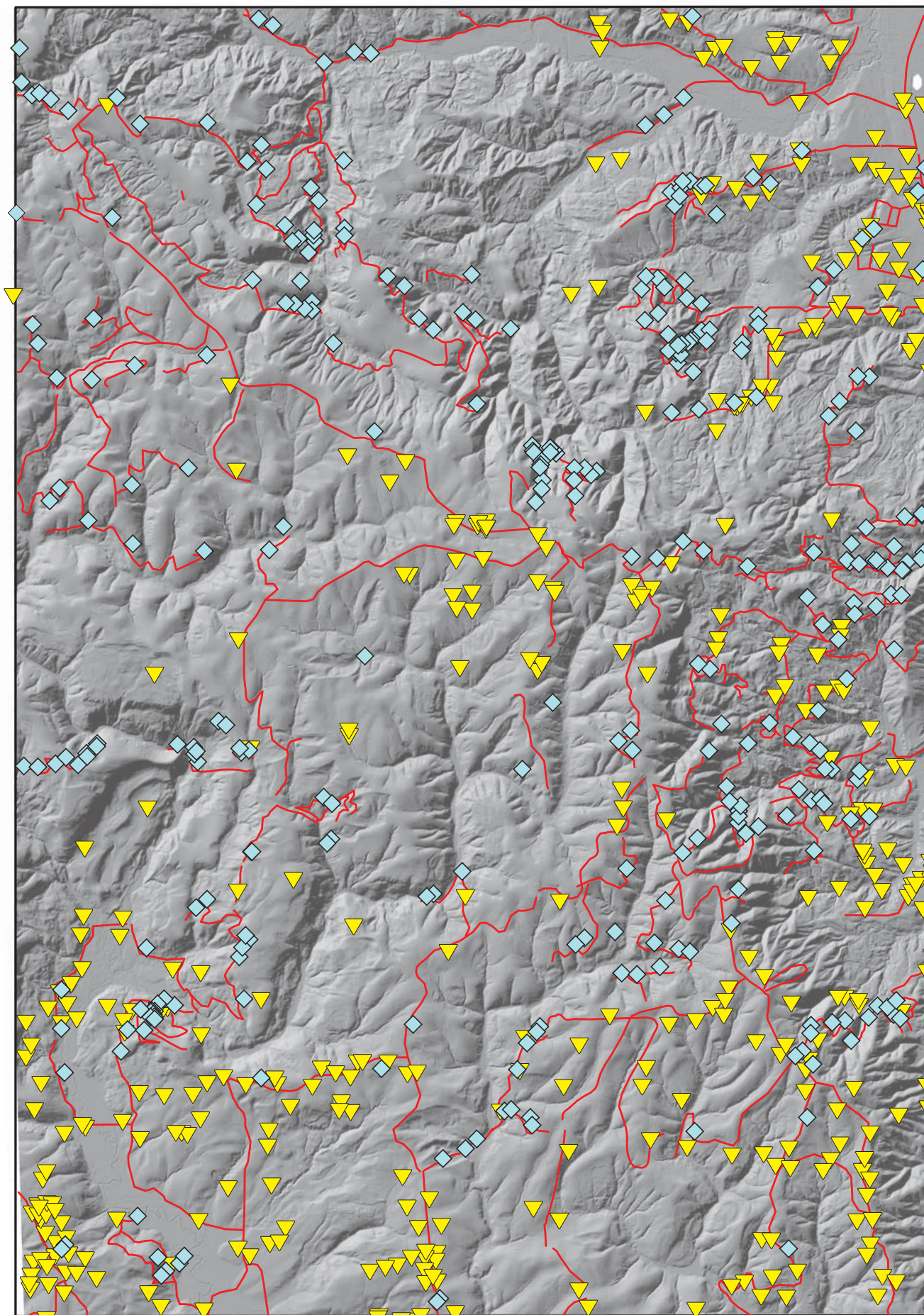
(Explanation of units and structure is accompanying text report)

- | | |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| T ₁₀ | <p>Troudale Formation (Missone? and Pluocene)</p> <p>Conglomerate and sandstone unit (Missone and Pluocene)</p> |
| | <p>Columbia River Basalt Group (middle and lower Missone)</p> <p>Wanapum Basalt (middle Missone)</p> <p>Member of Frenchman Springs (middle Missone)</p> <p>Basalt of Sand Hollow (middle Missone)</p> <p>Grande Ronde Basalt (middle and lower Missone)</p> <p>Member of Sentinel Bluffs (middle Missone)</p> <p>Basalt of Mc Coy Canyon (middle Missone)</p> <p>Member of Winter Water (middle Missone)</p> <p>Basalt of Winter Water (middle Missone)</p> <p>Member of Orsley (middle Missone)</p> <p>Basalt of Orsley (middle Missone)</p> <p>Member of Wapahilla Ridge (middle Missone)</p> <p>Basalt of Wapahilla Ridge (middle Missone)</p> <p>Scopasoo Formation (upper Pluocene and lower Missone)</p> <p>Marine sandstone unit (Missone?)</p> |
| Ta ₁ T ₂ | |
| T ₁₀ T ₁₁ | |
| T ₉ gw | |
| T ₉ | |
| T ₉ gw | |
| T ₈ | |

Contact – approximately located

- Contact** – approximately located
- Fault** – dashed where approximately located; dotted where concealed; bar and downhewn side
- Location of whole-rock XRF geochemical analysis sample** – labeled with map code, also see Appendix C in the accompanying text report
- Water well** – location of water well used to construct cross sections; domestic use (wells designated with Oregon Water Resources Department drill-log identifiers: COLO, Columbia, MULT, Multnomah, and WASH, Washington)
- Abandoned open pit, quarry** – abandoned; type: s = stone
- Anticlinal fold axis** – approximately located

(Shaded relief base map from Portland Lidar Consortium)



- Traverse route
- ◆ Location of station where sample was collected or field observation made
- ▼ Location of water well or engineering boring (approximately located)

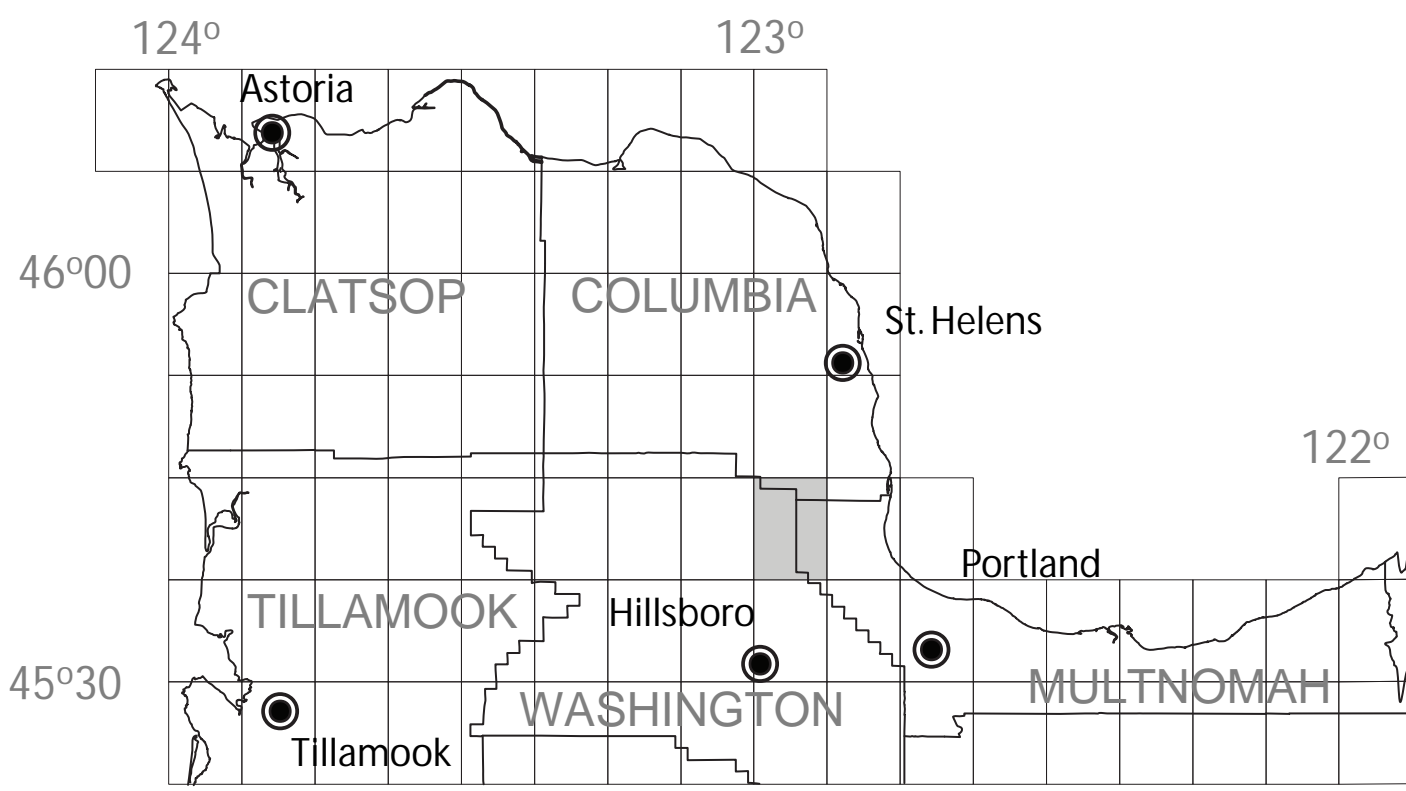
This map cannot serve as a substitute for site-specific investigations by qualified practitioners. Site-specific data may give results that differ from those shown on the maps. The views and conclusions contained in this document are those of the authors and should not be interpreted as necessarily representing the official policies, either expressed or implied, of the U.S. government.

This report is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards or with the North American Stratigraphic Code.

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INDEX MAP SHOWING AREA OF DIXIE MOUNTAIN 7.5' QUADRANGLE
(NOT SHOWN TO SCALE)

Shaded relief map from Portland Land Consortium, *Living Right Coast Maps* (PCLC, 2004-2005)

Horizontal accuracy - 30 centimeters
Vertical accuracy - 30 centimeters
Projection: Lambert Conformal Conic
Units: English (Feet)
Scale Meters: 1:21,000
Graphic Meters: 1:21,000
Graphic Feet: 1:21,000
Datum: NAD 83
Elevation: 100 feet
Map material: 1:63,000 contour database to display

UTM GRID AND 1983 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:21,000
Kilometers 0 1 2
Meters 0 1000 2000
Feet 0 1000 2000

Legend:
Proposed Boundary
Existing Boundary
Oregon Coast Range National Monument
Oregon Coast Range National Forest
Oregon Coast Range National Monument

OREGON

QUADANGLE LOCATION

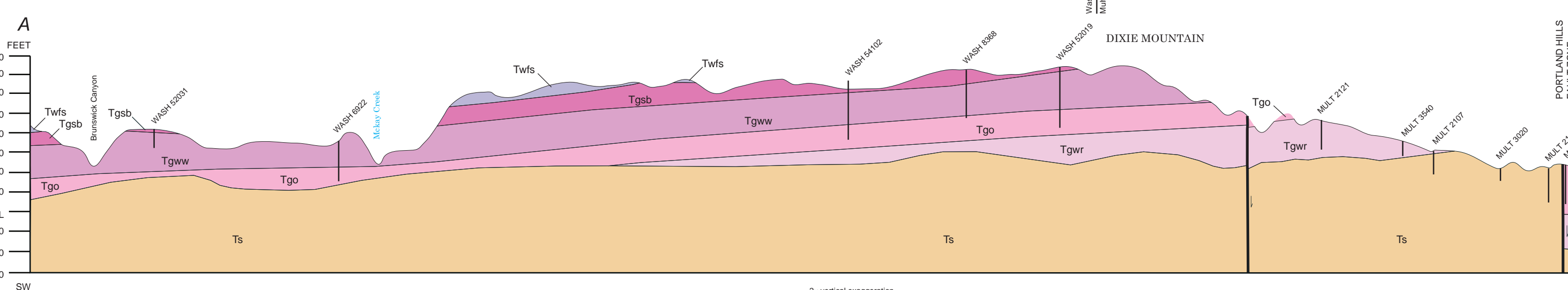
QUADANGLE NAMES

CONTOUR INTERVAL NOT AVAILABLE

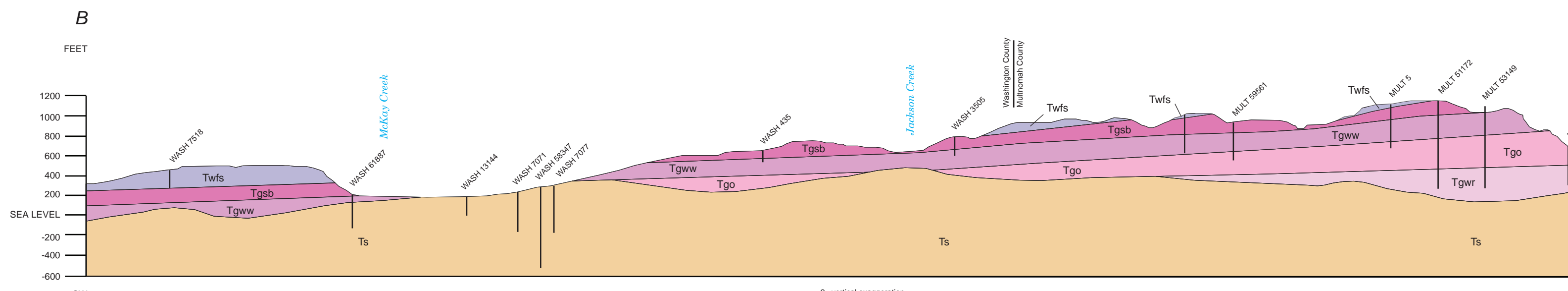
CROSS SECTION NOTES

Ground profile was generated from Dixie Mountain 7.5' quadrangle 10-m DEM.
Contacts between units are irregular in shape and may be gradational. Boring data are from Oregon Water Resources Department database. Accuracy of boring locations and boring logs has not been verified.
Geologic relations are based on limited data and are accordingly interpretive.

(Earliest units not shown in cross section)



(Shaded units not shown in cross section)



Cartography by Clark A. Niewendoeep

Field work conducted in 2006 and 2007

Software used: ArcGIS 9.0, MapInfo Pro
v.11.1, Illustrator CS3, v.14.1, AutoCAD

Digital files are not available on the World Wide Web

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