

LEGEND

- Walla Walla River Catchment
 - WRIA 32
 - City Limits
 - Shallow Gravel Aquifer Area Delineated by County
 - States
- Ground Water Recharge Area**
 - Zone 1
 - Zone 2



Scale in Miles

Map Projection:
Washington State Plane South
NAD 1983 Feet

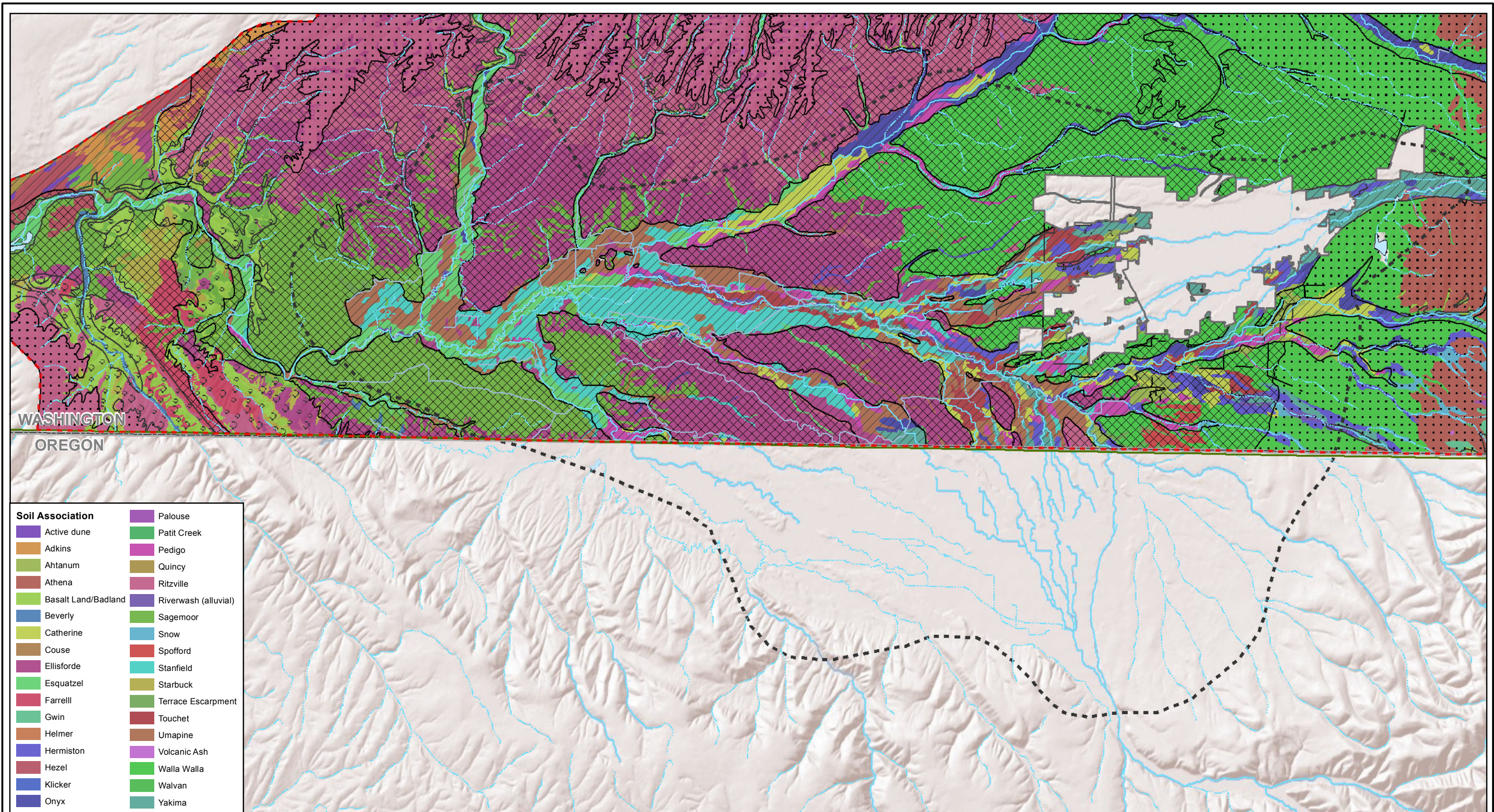
Source:
Walla Walla County,
Golder Associates Inc.



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FIGURE **1A**
**WALLA WALLA RIVER SHALLOW GRAVEL AQUIFER
GROUNDWATER RECHARGE AREA MAP
(DECEMBER 2011)**

WALLA WALLA COUNTY CARA REVIEW/WA



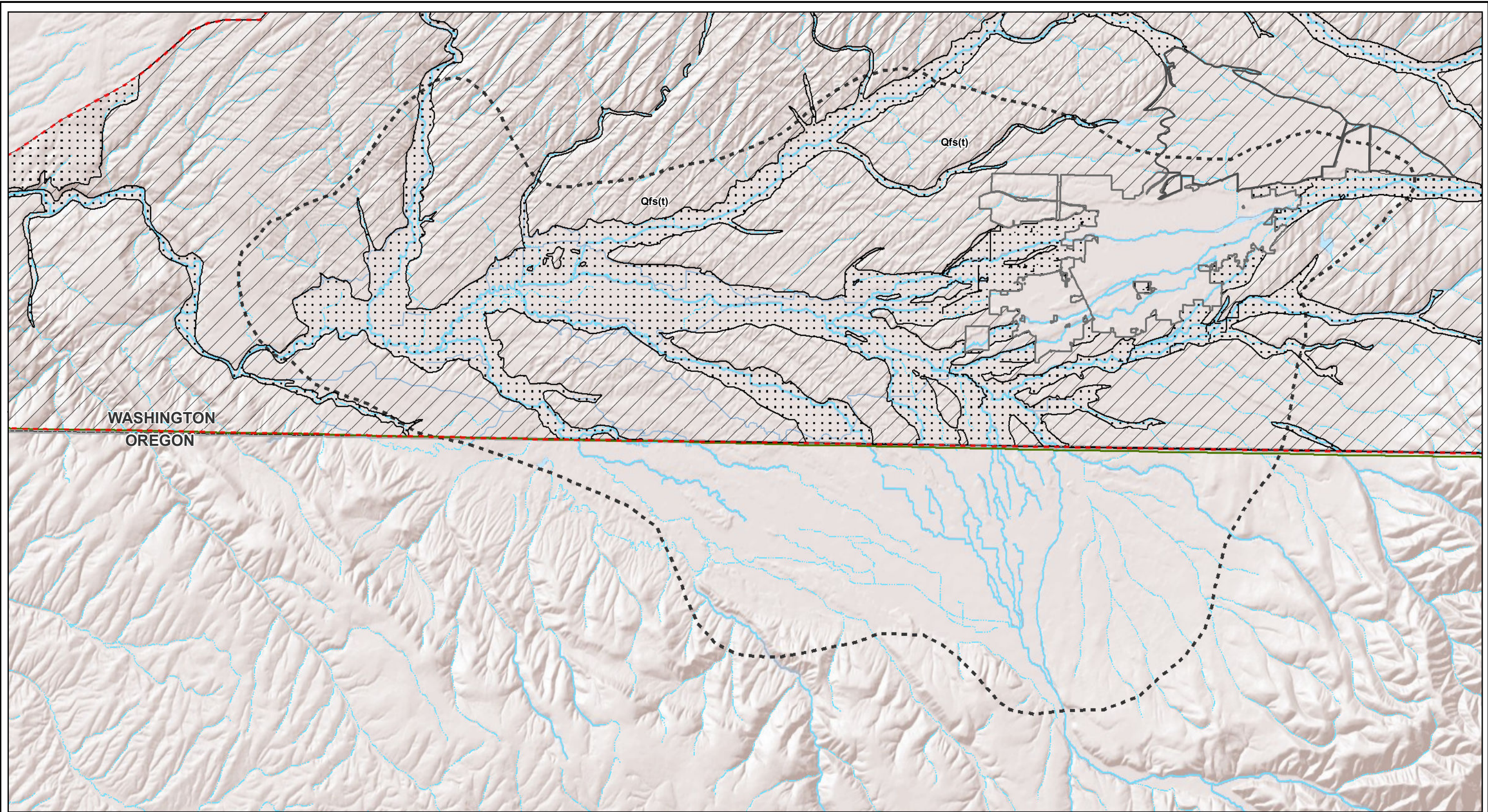
Soil Association	
Active dune	Palouse
Adkins	Patit Creek
Ahtanum	Pedigo
Athena	Quincy
Basalt Land/Badland	Ritzville
Beverly	Riverwash (alluvial)
Catherine	Sagemoor
Couse	Snow
Ellisforde	Spofford
Esquatzel	Stanfield
Farrell	Starbuck
Gwin	Terrace Escarpment
Helmer	Touchet
Hermiston	Umapine
Hezel	Volcanic Ash
Klicker	Walla Walla
Onyx	Walvan
	Yakima

LEGEND	
	Walla Walla River Catchment
	WRIA 32
	City Limits
	States
	Shallow Gravel Aquifer Area Delineated by County
	Alluvium
	Columbia River Basalt
	Loess
	Miocene Sediments
	Touchet Beds

0 2
 Scale in Miles
 Map Projection:
 Washington State Plane South
 NAD 1983 Feet
 Source:
 Walla Walla County,
 Golder Associates Inc.

FIGURE 2A
**WALLA WALLA RIVER SHALLOW GRAVEL AQUIFER RECHARGE
 AREA GEOLOGIC UNITS AND SOIL SURVEY SOILS MAP
 (DECEMBER 2011)**
 WALLA WALLA COUNTY CARA REVIEW/WA

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LEGEND

- Walla Walla River Catchment
- WRIA 32
- City Limits
- Shallow Gravel Aquifer Area Delineated by County
- States

- Susceptibility Zone**
- High Susceptibility (Zone 1/2)
 - Low Susceptibility (Zone 3)

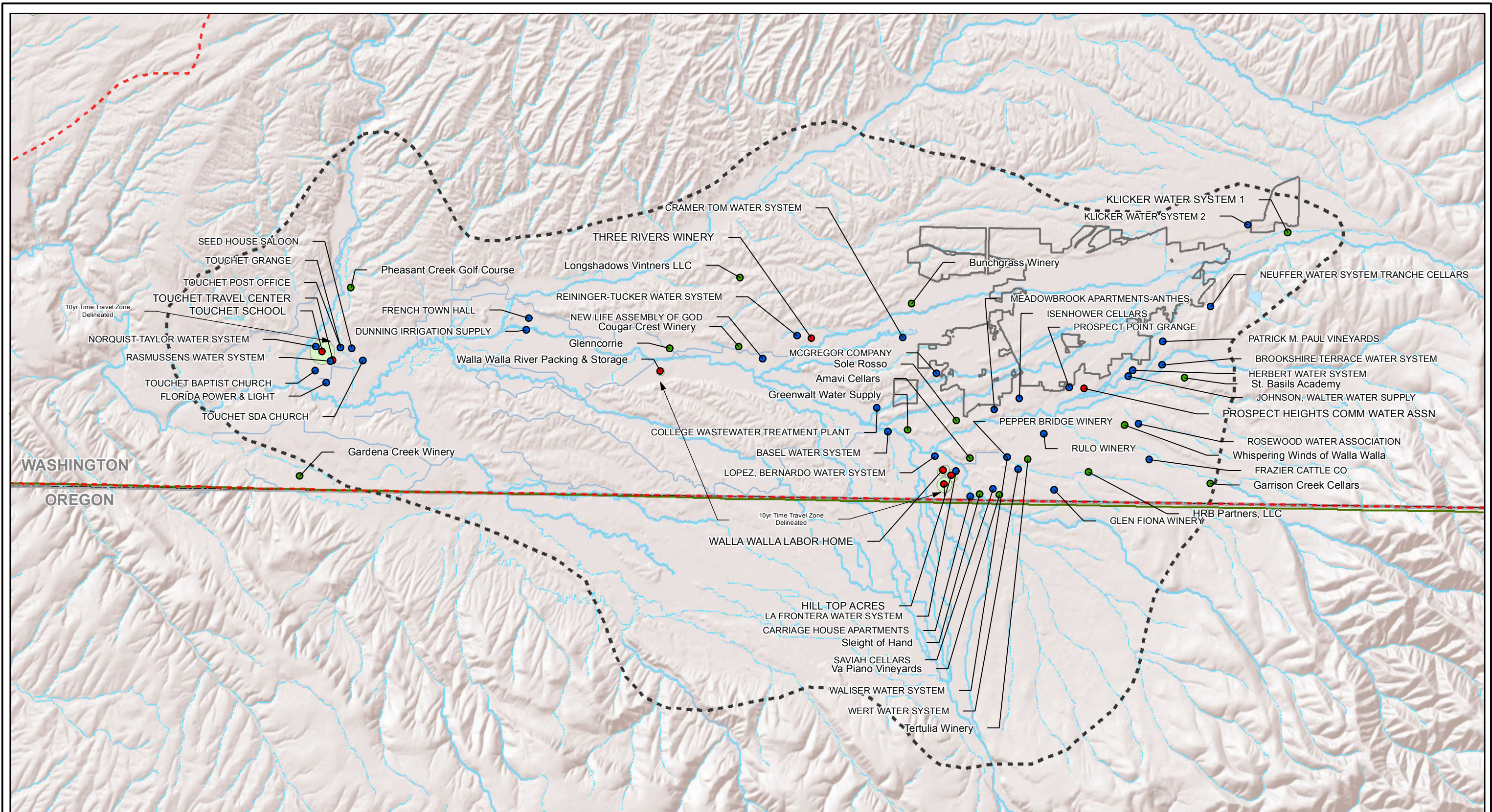
0 2
 Scale in Miles
 Map Projection:
 Washington State Plane South
 NAD 1983 Feet
 Source:
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 Golder Associates Inc.



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FIGURE **3A**
WALLA WALLA RIVER SHALLOW GRAVEL AQUIFER
RECHARGE AREA SUSCEPTIBILITY MAP
(DECEMBER 2011)

WALLA WALLA COUNTY CARA REVIEW/WA



LEGEND

- Group A Well
- Group B Well
- Group B Well (Located based on 1/4 1/4 Sections)
- Walla Walla River Catchment
- WRIA 32
- City Limits
- Shallow Gravel Aquifer Area Delineated by County
- 10 yr Time Travel Zones
- States

NOTE: Location of wells are approximations.

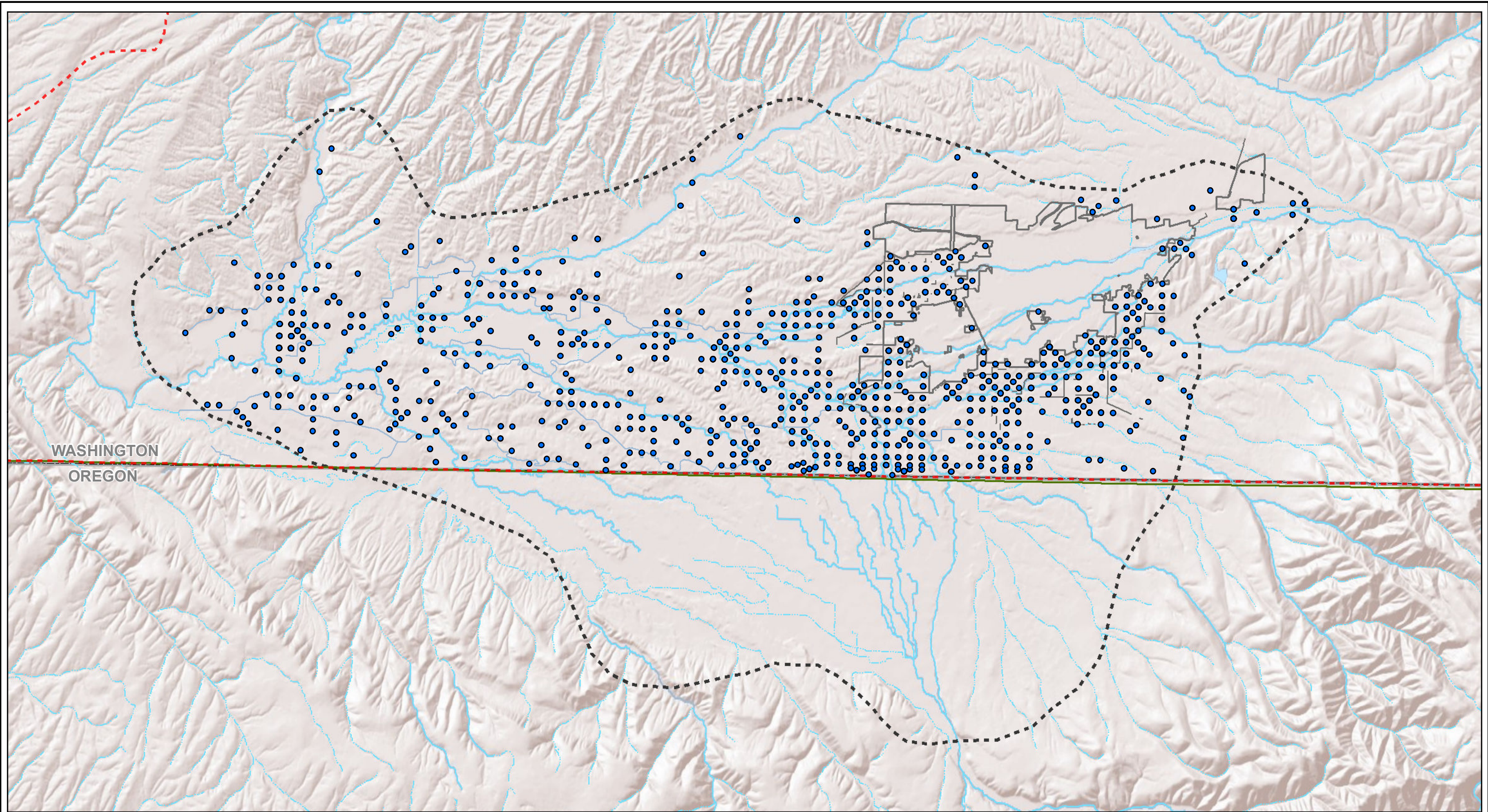
0 5
Scale in Miles

Map Projection:
Washington State Plane South
NAD 1983 Feet

Source:
Walla Walla County,
Golder Associates Inc.

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FIGURE 4A
WALLA WALLA RIVER GROUP A AND B PUBLIC WATER SYSTEMS
WITHIN SHALLOW GRAVEL AQUIFER RECHARGE AREA
(DECEMBER 2011)
WALLA WALLA COUNTY CARA REVIEW/WA



LEGEND

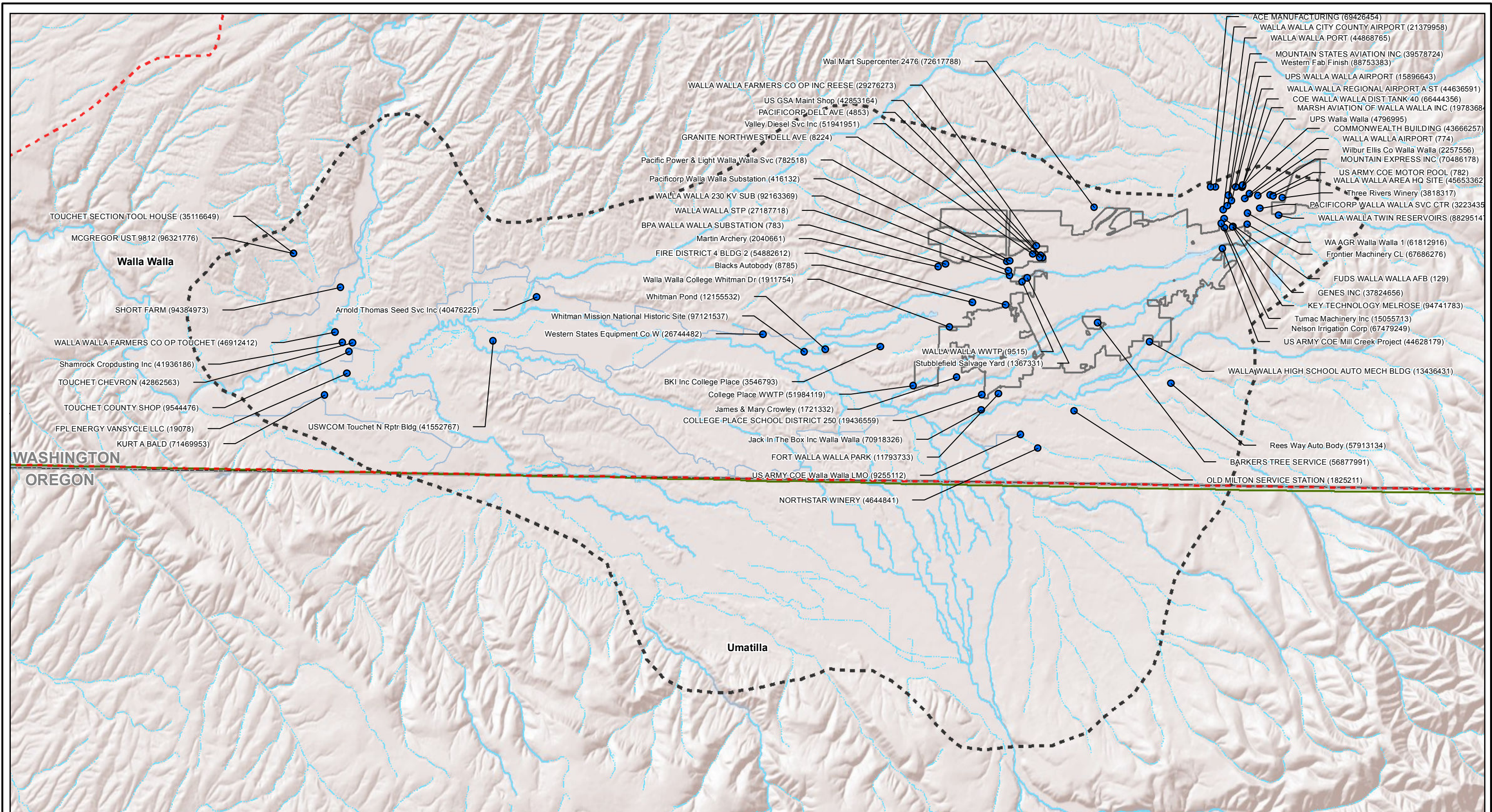
- Water Well (less than 300 feet deep)
- Walla Walla River Catchment
- WRIA 32
- City Limits
- Shallow Gravel Aquifer Area Delineated by County
- States

0 2
 Scale in Miles
 Map Projection:
 Washington State Plane South
 NAD 1983 Feet
 Source:
 Walla Walla County,
 Golder Associates Inc.



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FIGURE 5A
WALLA WALLA RIVER LOCATION OF WELLS LESS THAN 300 FEET DEEP IN SHALLOW GRAVEL AQUIFER RECHARGE AREA (DECEMBER 2011)
 WALLA WALLA COUNTY CARA REVIEW/WA



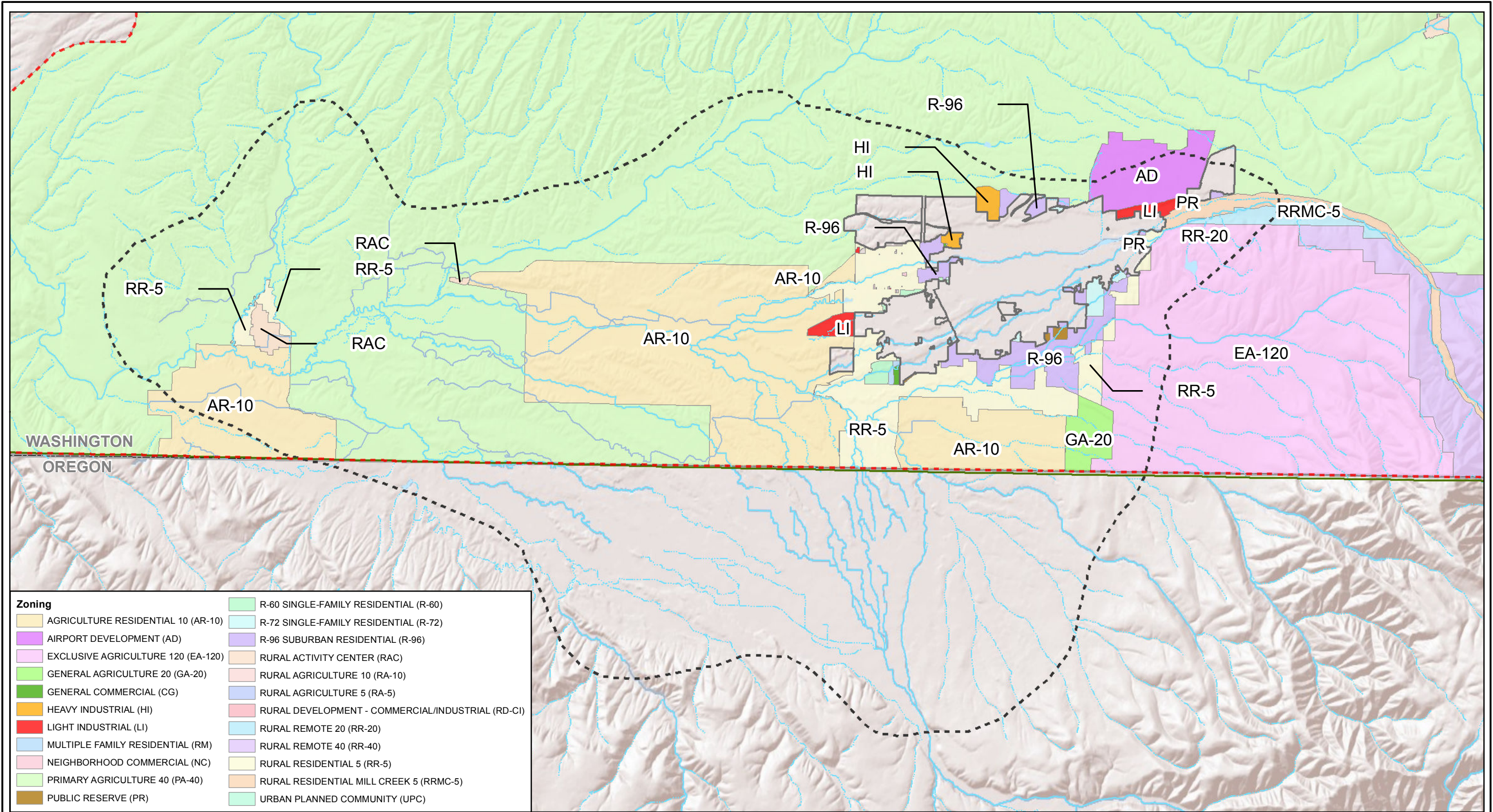
LEGEND

- Site in Database
- Walla Walla River Catchment
- WRIA 32
- City Limits
- Shallow Gravel Aquifer Area Delineated by County
- States
- Counties

0 2
 Scale in Miles
 Map Projection:
 Washington State Plane South
 NAD 1983 Feet
 Source:
 Walla Walla County,
 Golder Associates Inc.

FIGURE **6A**
**LOCATION OF SITES IN WASHINGTON STATE DEPARTMENT OF ECOLOGY
 FACILITY INFORMATION DATABASE THAT COULD AFFECT GROUNDWATER
 QUALITY IN THE WALLA WALLA RIVER SHALLOW GRAVEL AQUIFER RECHARGE AREA
 (DECEMBER 2011)**
 WALLA WALLA COUNTY CARA REVIEW/WA

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Zoning	
AGRICULTURE RESIDENTIAL 10 (AR-10)	R-60 SINGLE-FAMILY RESIDENTIAL (R-60)
AIRPORT DEVELOPMENT (AD)	R-72 SINGLE-FAMILY RESIDENTIAL (R-72)
EXCLUSIVE AGRICULTURE 120 (EA-120)	R-96 SUBURBAN RESIDENTIAL (R-96)
GENERAL AGRICULTURE 20 (GA-20)	RURAL ACTIVITY CENTER (RAC)
GENERAL COMMERCIAL (CG)	RURAL AGRICULTURE 10 (RA-10)
HEAVY INDUSTRIAL (HI)	RURAL AGRICULTURE 5 (RA-5)
LIGHT INDUSTRIAL (LI)	RURAL DEVELOPMENT - COMMERCIAL/INDUSTRIAL (RD-CI)
MULTIPLE FAMILY RESIDENTIAL (RM)	RURAL REMOTE 20 (RR-20)
NEIGHBORHOOD COMMERCIAL (NC)	RURAL REMOTE 40 (RR-40)
PRIMARY AGRICULTURE 40 (PA-40)	RURAL RESIDENTIAL 5 (RR-5)
PUBLIC RESERVE (PR)	RURAL RESIDENTIAL MILL CREEK 5 (RRMC-5)
	URBAN PLANNED COMMUNITY (UPC)

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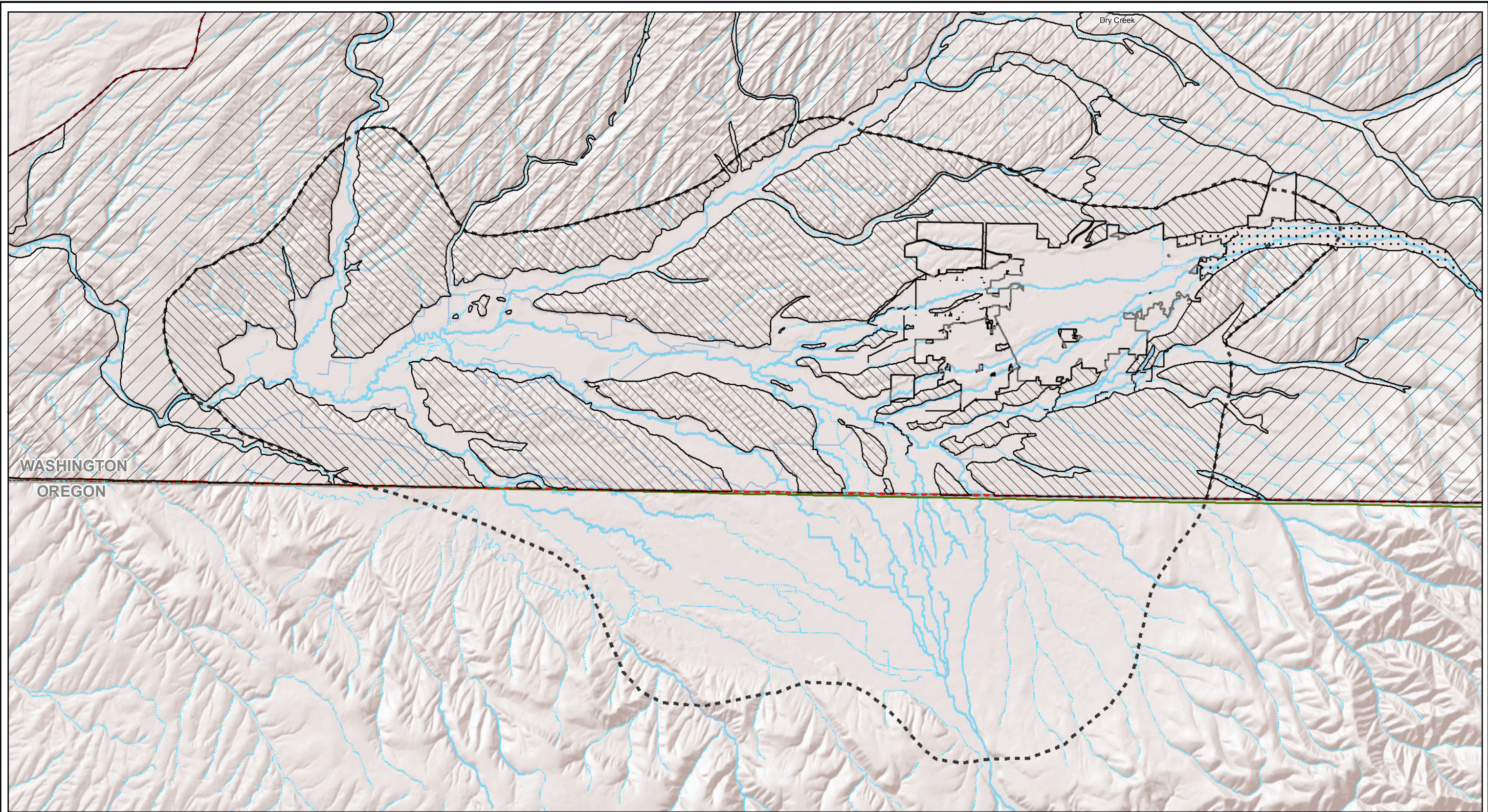
0 2
Scale in Miles

Map Projection:
Washington State Plane South
NAD 1983 Feet

Source:
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FIGURE **7A**
WALLA WALLA RIVER SHALLOW GRAVEL AQUIFER RECHARGE AREA ZONING MAP (DECEMBER 2011)
WALLA WALLA COUNTY CARA REVIEW/WA



LEGEND

- Walla Walla River Catchment
 - WRIA 32
 - City Limits
 - Shallow Gravel Aquifer Area Delineated by County
 - States
- Aquifer Vulnerability**
- Zone I (High Vulnerability)
 - Zone II (Moderate Vulnerability)
 - Zone III (Low Vulnerability)



Scale in Miles

Map Projection:
Washington State Plane South
NAD 1983 Feet

Source:
Walla Walla County,
Golder Associates Inc.

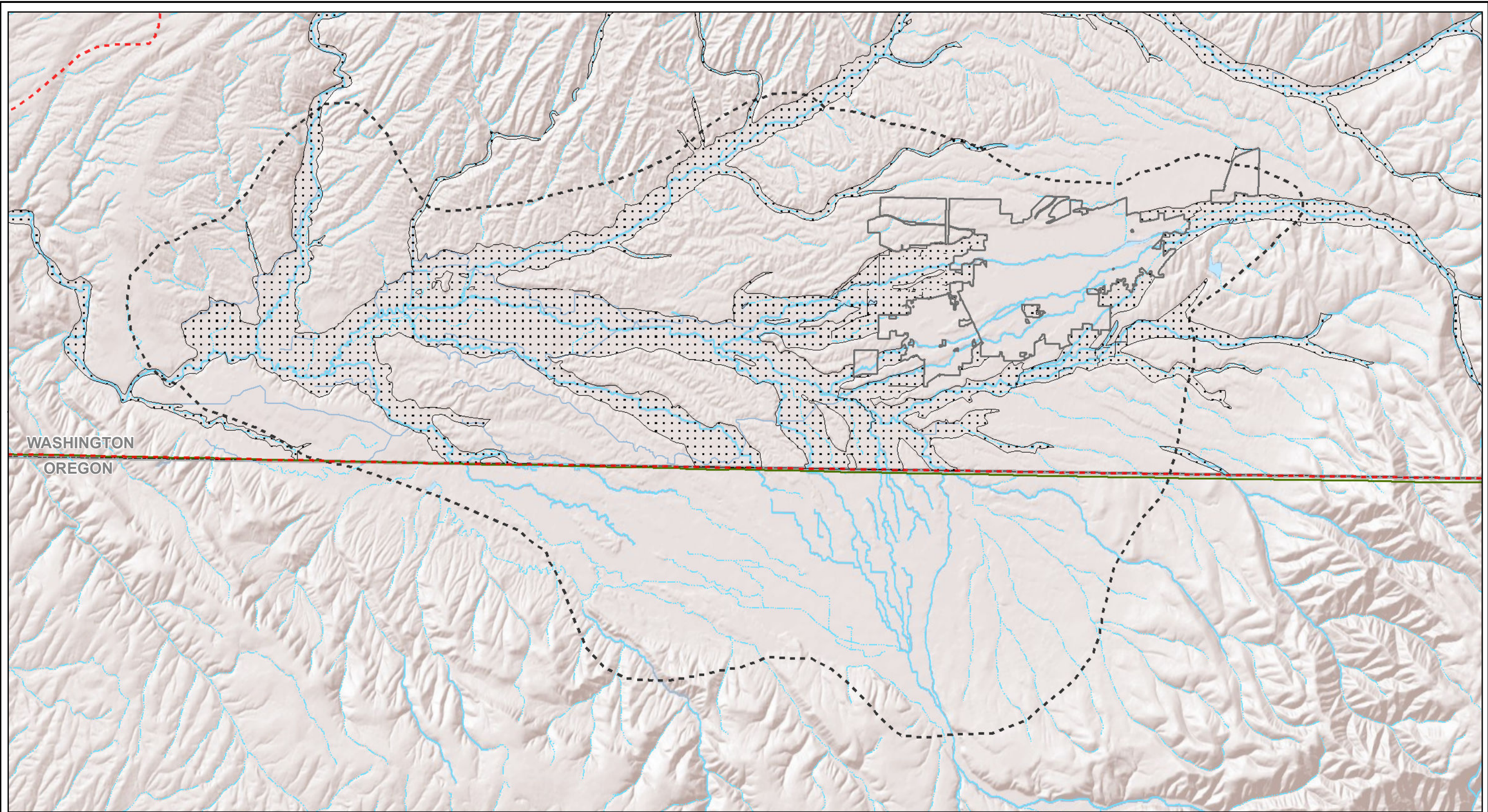








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MAP 8A
WALLA WALLA RIVER SHALLOW GRAVEL AQUIFER
RECHARGE VULNERABILITY MAP
(DECEMBER 2011)

WALLA WALLA COUNTY CARA REVIEW/WA

Golder Associates



- LEGEND**
-  Critical Aquifer Recharge Area
 -  Walla Walla River Catchment
 -  City Limits
 -  WRIA 32
 -  Shallow Gravel Aquifer Area Delineated by County
 -  States

0 2
 Scale in Miles
 Map Projection:
 Washington State Plane South
 NAD 1983 Feet
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 Golder Associates Inc.



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MAP **9A**
WALLA WALLA RIVER SHALLOW GRAVEL AQUIFER
CRITICAL AQUIFER RECHARGE AREA MAP
(DECEMBER 2011)

WALLA WALLA COUNTY CARA REVIEW/WA