

## Appendix C. Support Maps

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## Map 1—Alternative 1—Siphons Installation Map

# PROPOSED ACTIVITY BY PURPOSE

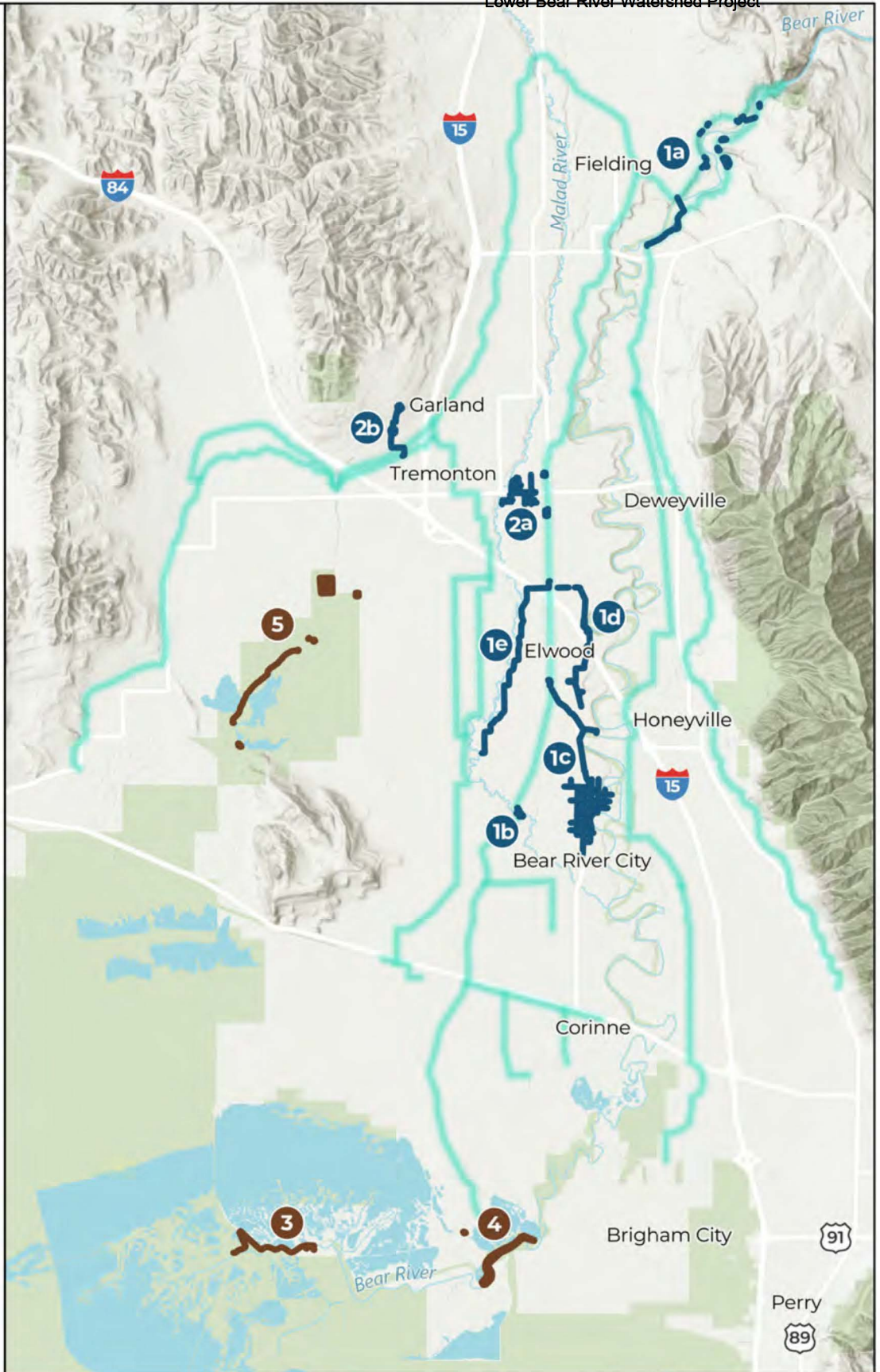
## Agricultural Water Management

### Bear River Canal Company (BRCC) Irrigation Delivery System Improvements

- 1a** BRCC Siphons Installation
- 1b** BRCC Red Siphon
- 1c** Bear River City Pressure Irrigation
- 1d** Highland Ditch Piping
- 1e** Central Canal Company Piping
- 2a** Tremonton PI Improvements
- 2b** Tremonton Irrigation Storage

## Watershed Protection

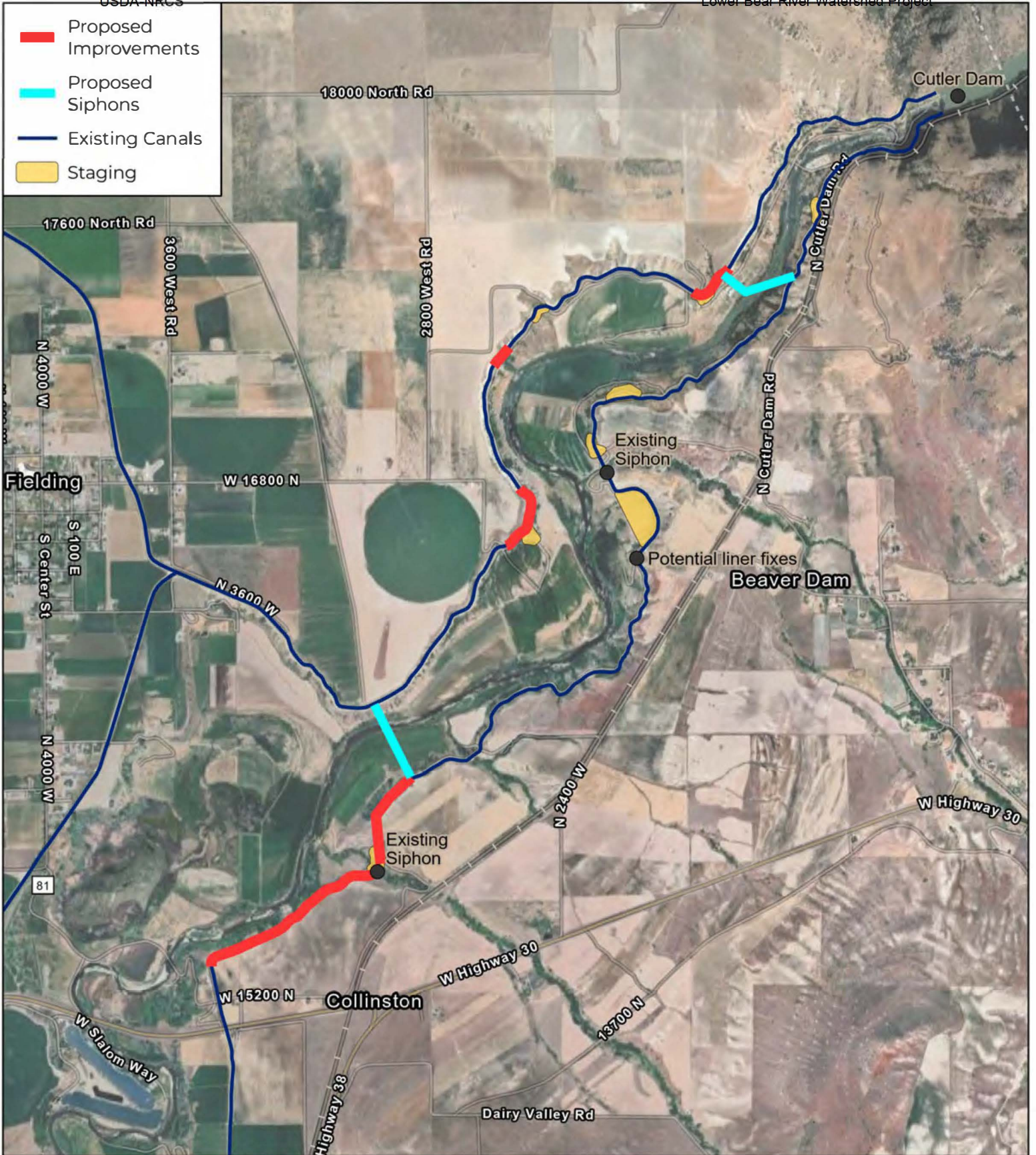
- 3** Bear River Club Levee Improvements
- 4** Chesapeake Duck Club Levee Improvements
- 5** Salt Creek WMA Levee Improvements and Sediment Removal



# ALTERNATIVE 1— SIPHONS INSTALLATION



## Map 2 —BRCC Siphons Installation Proposed Activities Map



BRCC IRRIGATION DELIVERY SYSTEM IMPROVEMENTS

# BRCC SIPHONS INSTALLATION PROPOSED ACTIVITIES

Purpose: Agricultural Water Management  
Lower Bear River Watershed EIS



October 2025

## Map 3—Land Ownership Map

# SURFACE OWNERSHIP AND ADMINISTRATION

## Federal

- 339 ac Bureau of Land Management
- 436 ac National Forest
- 11,084 ac National Wilderness Area
- 2,179 ac National Wildlife Refuge

## State

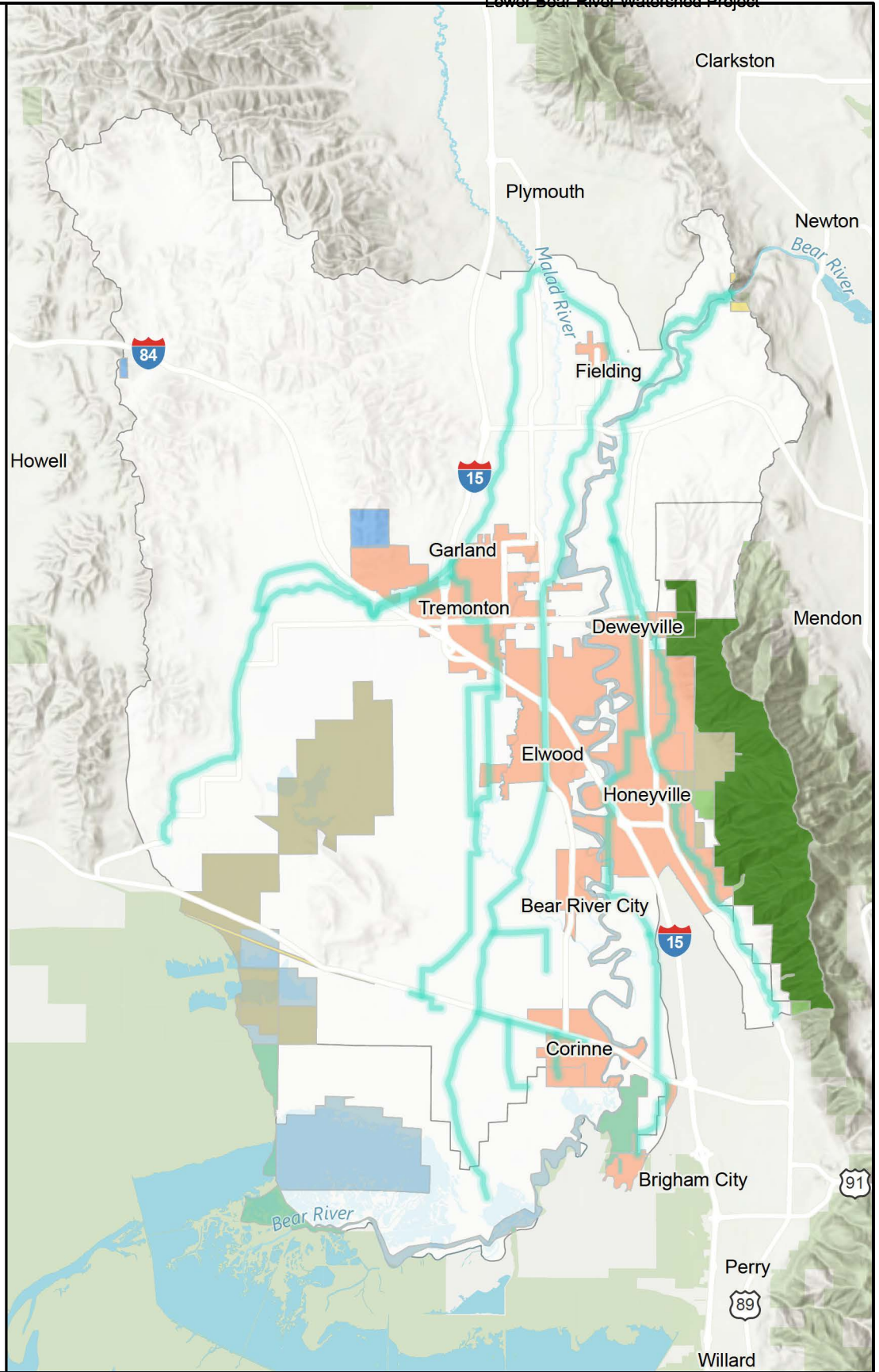
- 710 ac State Trust Lands
- 9,837 ac State Sovereign Land
- 11,353 ac State Wildlife Reserve/Management Area

## Local

- 26,433 ac Municipalities

## Private



- 186,716 ac Private





# LAND OWNERSHIP

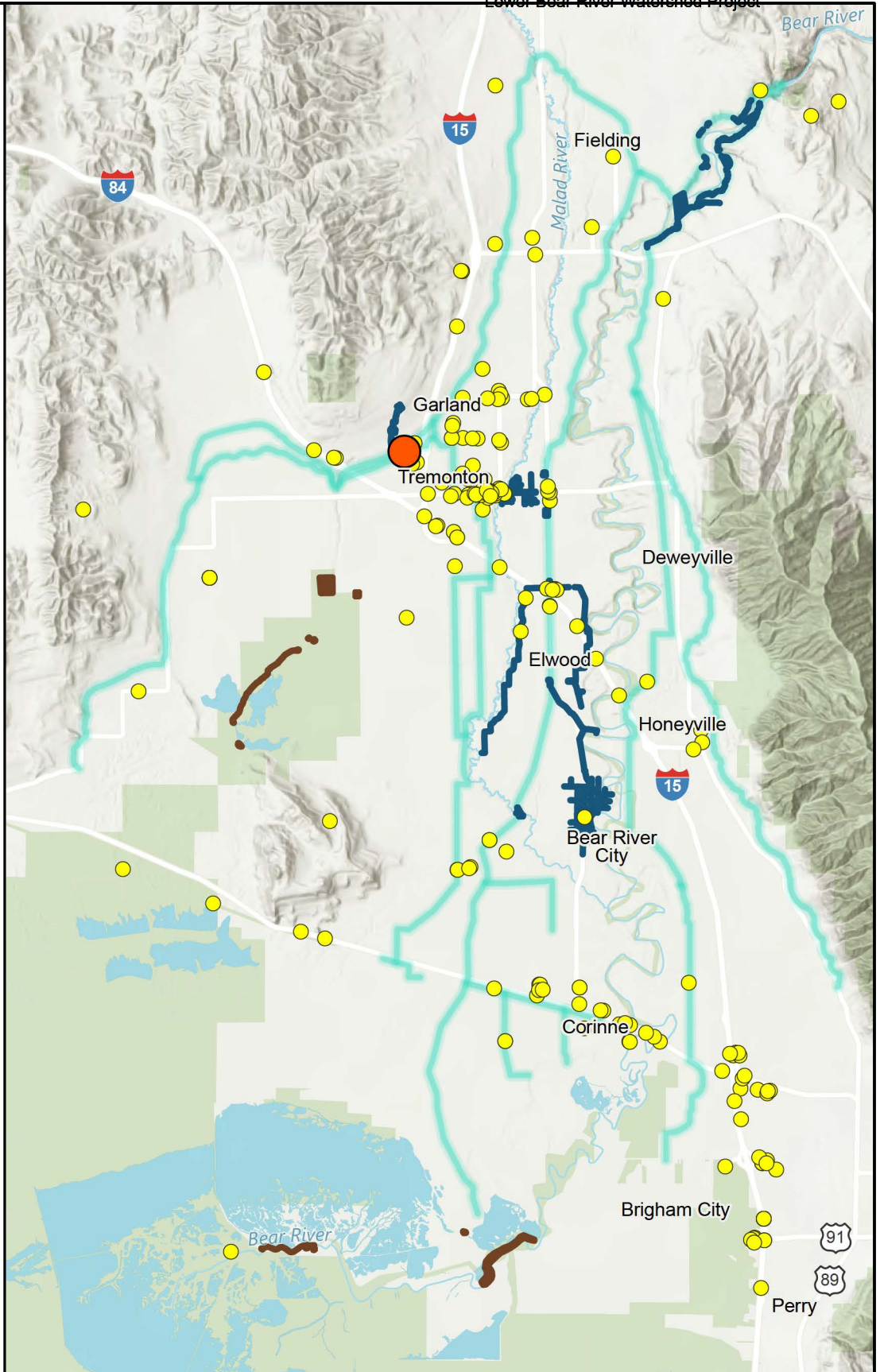


Map 4—Utah Department of Environmental Quality (UDEQ)  
Hazardous Materials Map

-  Agricultural Water Management
-  Watershed Protection

### Hazardous Materials

-  ≤15 ft from Proposed Activity (1)
-  >15 ft from Proposed Activity (195)



# LOWER BEAR RIVER HAZARDOUS MATERIALS



## Map 5—Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) Panels

NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The community map repository should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where Base Flood Elevations (BFEs) and/or Floodways have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Boundaries of the floodways were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Floodway Data table shown on this FIRM.

Certain areas not in Special Flood Hazard Areas may be protected by flood control structures. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this jurisdiction.

The projection used in the preparation of this map was State Plane Utah North 4301 Horizontal datum was NAD 83, GRS80 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same vertical datum. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at <http://www.ngs.noaa.gov/> or contact the National Geodetic Survey at the following address:

NGS Information Services  
NCAA, NVD512  
National Geodetic Survey  
SSM-C, 99202  
1315 East-West Highway  
Silver Spring, Maryland 20910-3282  
(301) 713-3342

To obtain current elevation, description, and/or location information for bench marks shown on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) 713-3242, or visit its website at <http://www.ngs.noaa.gov/>.

Base map information shown on this FIRM was provided in digital format by the U.S. Farm Service National Agriculture Imagery Program (NAIP), dated summer 2008, and by the U.S. Geological Survey Digital Orthophoto Quadrangles, dated 1993 and later, produced at a scale of 1:64,000. The data was obtained from the State Geographic Information Dataset (SGID) maintained by the Automated Geographic Reference Center (AGRC).

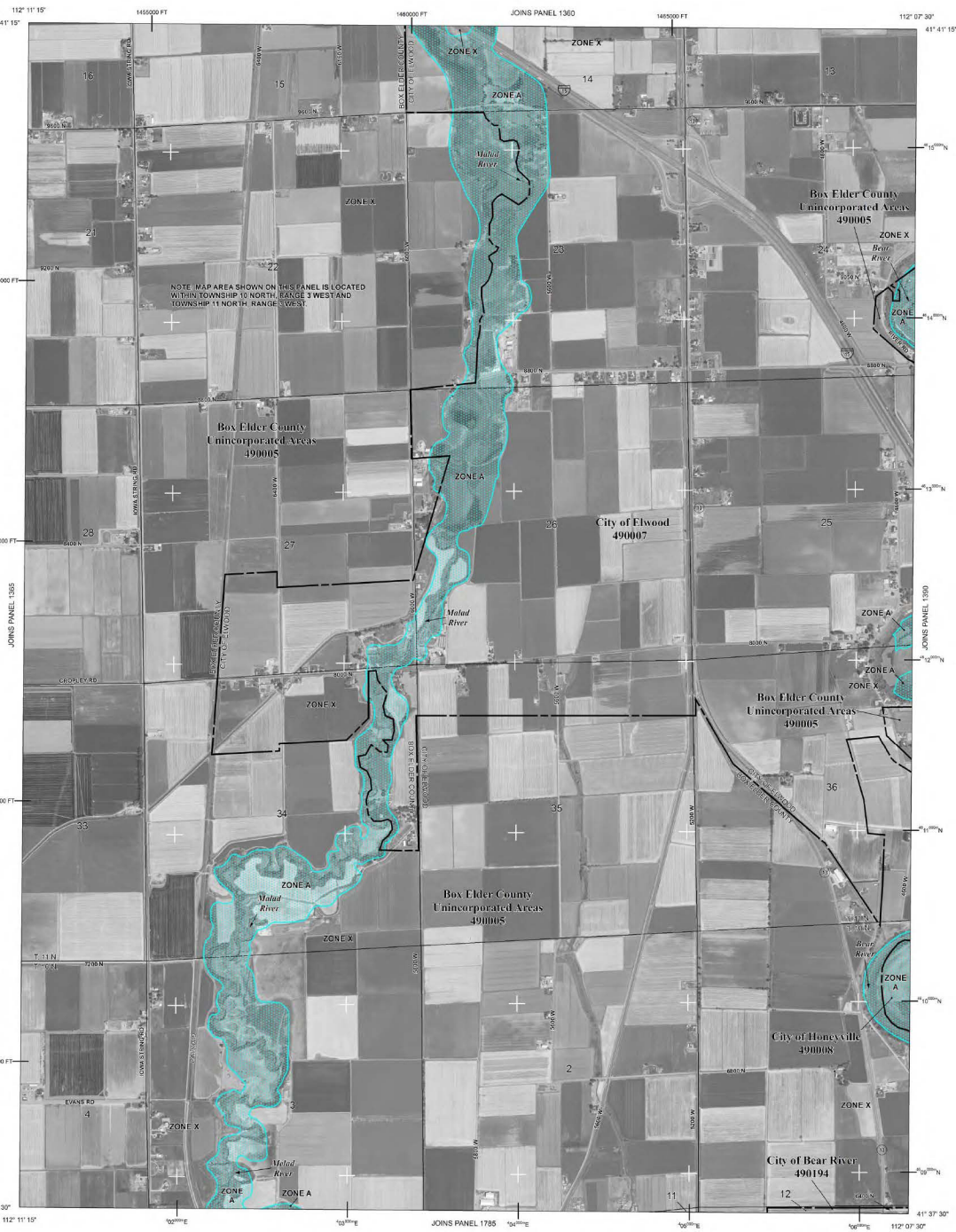
Based on updated topographic information, this map reflects more detailed and up-to-date stream channel configurations and floodplain delineations than those shown on the previous FIRM for this jurisdiction. As a result, the Flood Profiles and Floodway Data tables may reflect stream channel closures that differ from what is shown on the map. Also, the road to floodplain relationships for unincorporated streams may differ from what is shown on previous maps.

Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed Map Index for an overview map of the county showing the layout of map panels; community map repository addresses; and a listing of Communities table containing National Flood Insurance Program rates for each community as well as a listing of the panels on which each community is located.

Contact the FEMA Map Service Center at 1-800-358-9616 for information on available products associated with this FIRM. Available products may include previously issued Letters of Map Change, a Flood Insurance Study report, and/or digital versions of this map. The FEMA Map Service Center may also be reached by Fax at 1-800-358-9620 and is website at <http://www.fema.gov/>.

If you have questions about this map or questions concerning the National Flood Insurance Program in general, please call 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA website at <http://www.fema.gov/business/firm/>.



LEGEND

- SPECIAL FLOOD HAZARD AREAS (SFHAS) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD**
- The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazards include Zone A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water surface elevation of the 1% annual chance flood.
- ZONE A** No Base Flood Elevations determined; Base Flood Elevations determined.
  - ZONE AE** Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
  - ZONE AH** Flood depths of 1 to 3 feet (usually areas of ponding); average depths determined. For areas of substantial flooding, velocities also determined.
  - ZONE AO** Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of substantial flooding, velocities also determined.
  - ZONE AR** Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decommissioned. Zone AR indicates the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
  - ZONE A99** Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
  - ZONE V** Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
  - ZONE VE** Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.

- FLOODWAY AREAS IN ZONE AE**
- The floodway is the channel of a stream plus any adjacent floodplain area that must be kept free of encroachment so that the 1% annual chance flood can be moved without substantial increases in flood heights.
- OTHER FLOOD AREAS**
- ZONE X** Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

- OTHER AREAS**
- ZONE X** Areas determined to be outside the 0.2% annual chance floodplain.
  - ZONE D** Areas in which flood hazards are undetermined, but possible.
- COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS**
- OTHERWISE PROTECTED AREAS (OPAs)**
- CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

- 1% annual chance floodplain boundary
- 0.2% annual chance floodplain boundary
- Floodway boundary
- Zone D boundary
- CBRS and OPA boundary
- Boundary of Special Flood Hazard Area of different Base Flood Elevations, flood depths or flood velocities
- Base Flood Elevation line and value, elevation in feet
- Base Flood Elevation line and value, elevation in feet
- (E1, 987)

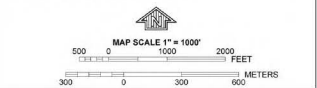
- Referenced to the North American Vertical Datum of 1988
- Cross section line
- Transect line
- Geographic coordinates referenced to the North American Datum of 1983 (NAD 83)
- 1000-meter Universal Transverse Mercator grid values, zone 12
- 5000-foot grid ticks, Utah State Plane coordinate system, north zone (SPZONE 12N), Lambert Conformal Conic projection
- Search mark (see explanation in Notes to Users section of this FIRM panel)
- DX5510 X
- M1.5 River Mile

**MAP REPOSITORY**  
Refer to listing of Map Repositories on Map Index

**EFFECTIVE DATE OF COUNTY-WIDE FLOOD INSURANCE RATE MAP**  
SEPTEMBER 29, 2010

**EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL**

For community map revision history prior to Countywide maps, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.



**NATIONAL FLOOD INSURANCE PROGRAM**

**PANEL 1370D**

**FIRM FLOOD INSURANCE RATE MAP**

**BOX ELDER COUNTY, UTAH AND INCORPORATED AREAS**

**PANEL 1370 OF 3500**  
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

COMMUNITY	NUMBER	PANEL	SUFFIX
BEAR RIVER, CITY OF	49000	1370	D
BOX ELDER COUNTY	49000	1370	D
ELWOOD, CITY OF	49000	1370	D
HONEYVILLE, CITY OF	49000	1370	D

Notice to User: The Map Number shown below should be used when filing map applications. The Community Number shown above should be used on insurance applications for the local community.

**MAP NUMBER 49003C1370D**

**EFFECTIVE DATE SEPTEMBER 29, 2010**

Federal Emergency Management Agency

NOTES TO USERS

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Boundaries of the floodways were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Floodway Data table shown on this FIRM.

Certain areas not in Special Flood Hazard Areas may be protected by flood control structures. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this jurisdiction.

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NGS Information Services  
NCAA, NW5012  
National Geodetic Survey  
SISM-3, 90202  
1315 East-West Highway  
Silver Spring, Maryland 20910-3282  
(301) 713-3342

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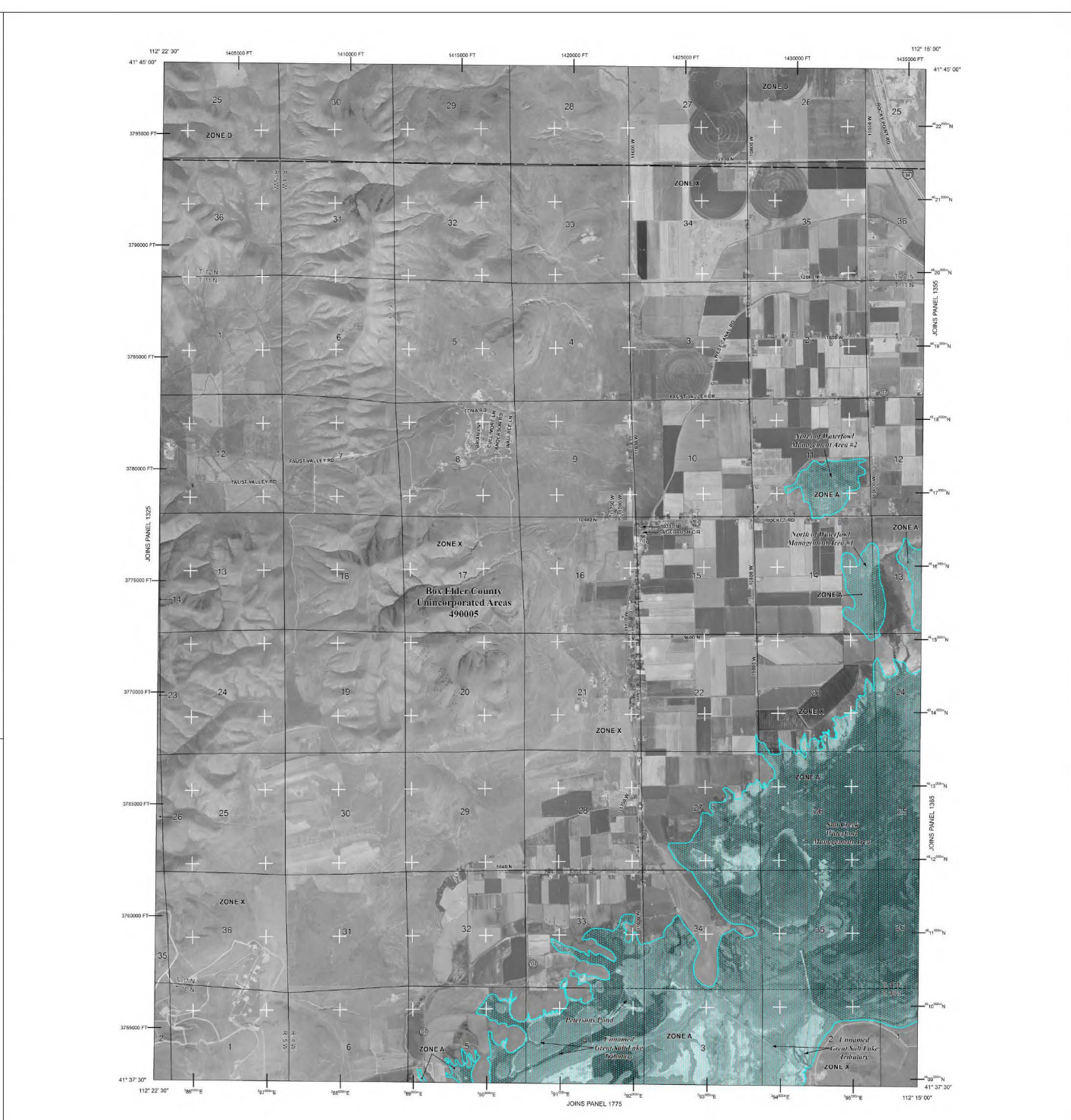
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LEGEND

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- ZONE AD** Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of cultural fee flooding, velocities also determined.
- ZONE AE1** Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decommissioned. Zone AE1 indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
- ZONE AE2** Area to be protected from the 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
- ZONE Y** Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
- ZONE VE** Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.
- FLOODWAY AREAS IN ZONE AE**

- OTHER FLOOD AREAS**
- ZONE X** Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.
- OTHER AREAS**
- ZONE X** Areas determined to be outside the 0.2% annual chance floodplain. Areas in which flood hazards are undetermined, but possible.
- ZONE D** Areas in which flood hazards are undetermined, but possible.
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- OTHERWISE PROTECTED AREAS (OPAs)**

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- 0.2% annual chance floodplain boundary
- Floodway boundary
- Zone D boundary
- CBRS and OPA boundary
- Boundary within Special Flood Hazard Area of different Base Flood Elevations, flood depths or flood velocities
- Base Flood Elevation line and value, elevation in feet
- Base Flood Elevation line and value, elevation in feet
- (E1 987)

Referenced to the North American Vertical Datum of 1988

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- Transect line
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- 5000-foot grid ticks, UTM State Plane coordinate system, north zone (SPZONE 12N), Lambert Conformal Conic projection
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- M 1:5
- River Mile

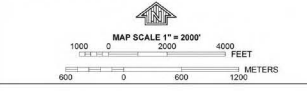
MAP REPOSITORY  
Refer to listing of Map Repositories on Map Index

EFFECTIVE DATE OF COUNTY-WIDE FLOOD INSURANCE RATE MAP  
SEPTEMBER 29, 2010

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

For community map revision history prior to countywide mappings, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-358-6000.



**NATIONAL FLOOD INSURANCE PROGRAM**

**PANEL 1350D**

**FIRM FLOOD INSURANCE RATE MAP**

**BOX ELDER COUNTY, UTAH AND INCORPORATED AREAS**

**PANEL 1350 OF 3500**  
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:  
COMMUNITY: BOX ELDER COUNTY NUMBER: 490005 PANEL: SUPER: 0

Notice to User: The Map Number shown below should be used when the map is used. The Community Number shown above should be used on insurance applications for the subject community.

**MAP NUMBER 49003C1350D**

**EFFECTIVE DATE SEPTEMBER 29, 2010**

Federal Emergency Management Agency

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1315 East-West Highway  
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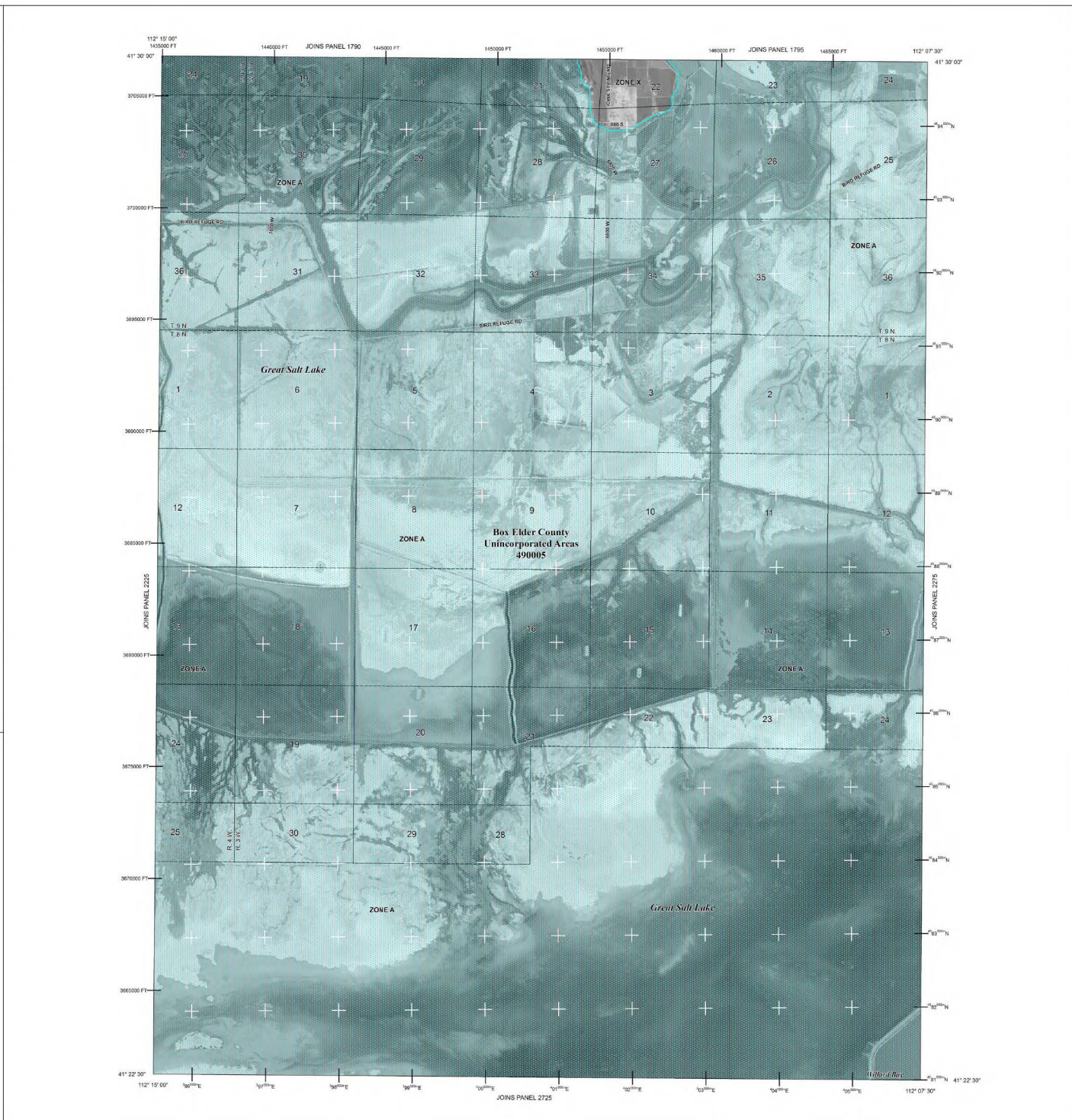
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LEGEND

SPECIAL FLOOD HAZARD AREAS (SFHAS) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazards include Zone A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water surface elevation of the 1% annual chance flood.

- ZONE A** No Base Flood Elevations determined; Base Flood Elevations determined.
- ZONE AH** Flood depths of 1 to 3 feet (usually areas of ponds); Base Flood Elevations determined.
- ZONE AO** Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of cultural loss flooding, velocities also determined.
- ZONE AR** Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decommissioned. Zone AR indicates the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
- ZONE A99** Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
- ZONE V** Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
- ZONE VE** Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain area that must be kept free of encroachment so that the 1% annual chance flood can be moved without substantial increase in flood heights.

**OTHER FLOOD AREAS**  
**ZONE X** Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

**OTHER AREAS**  
**ZONE X** Areas determined to be outside the 0.2% annual chance floodplain.  
**ZONE D** Areas in which flood hazards are undetermined, but possible.

**COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS**  
**OTHERWISE PROTECTED AREAS (OPAs)**

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

- 1% annual chance floodplain boundary
- 0.2% annual chance floodplain boundary
- Floodway boundary
- Zone A boundary
- CBRS and OPA boundary
- Boundary of Special Flood Hazard Area of different Base Flood Elevations, flood depths or flood velocities.
- Base Flood Elevation line and value, elevation in feet
- Base Flood Elevation value where uniform within zone; elevation in feet
- (E1, 987)

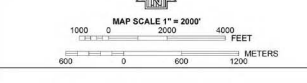
\* Referenced to the North American Vertical Datum of 1988

- Cross section line
- Transsect line
- Geographic coordinates referenced to the North American Datum of 1983 (NAD 83)
- 1000-meter Universal Transverse Mercator grid values, zone 12
- 5000-foot grid ticks, UTM State Plane coordinate system, north zone (GCSNAD 83), Lambert Conformal Conic projection
- Bench mark (see explanation in Notes to Users section of this FIRM panel)
- DMS510 X
- M 1:5 River Mile

MAP REPOSITORY  
Refer to listing of Map Repositories on Map Index  
EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP  
SEPTEMBER 29, 2010  
EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

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**NATIONAL FLOOD INSURANCE PROGRAM**

**PANEL 2280**

**FIRM FLOOD INSURANCE RATE MAP**

**BOX ELDER COUNTY, UTAH AND INCORPORATED AREAS**

**PANEL 2250 OF 3500**  
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:  
COMMUNITY: BOX ELDER COUNTY NUMBER: 06000 PANEL: 2280 SUPER: 0

Notice to User: The Map Number shown below should be used when purchasing map products. The Community Number shown above should be used on insurance applications for the local community.

**MAP NUMBER 490032250D**  
**EFFECTIVE DATE SEPTEMBER 29, 2010**

Federal Emergency Management Agency

NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The community map repository should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where Base Flood Elevations (BFEs) and/or Floodways have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Boundaries of the floodways were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Floodway Data table shown on this FIRM.

Certain areas not in Special Flood Hazard Areas may be protected by flood control structures. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this jurisdiction.

The projection used in the preparation of this map was State Plane Utah North 4301 Horizontal datum was NAD 83, GRS80 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same vertical datum. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at <http://www.ngs.noaa.gov> or contact the National Geodetic Survey at the following address:

NGS Information Services  
NGA, NWS012  
National Geodetic Survey  
SSM-C, 9020  
1315 East-West Highway  
Silver Spring, Maryland 20910-3282  
(301) 713-3242

To obtain current elevation, description, and/or location information for bench marks shown on this map, please contact the information Services Branch of the National Geodetic Survey at (301) 713-3242 or visit its website at <http://www.ngs.noaa.gov>.

Base map information shown on this FIRM was provided in digital format by the U.S. Farm Service National Agriculture Imagery Program (NAIP), dated summer 2016, and by the U.S. Geological Survey Digital Orthophoto Quadrangles, dated 1998 and later, produced at a scale of 1:24,000. The data was obtained from the State Geographic Information Dataset (SGID) maintained by the Automated Geographic Reference Center (AGRC).

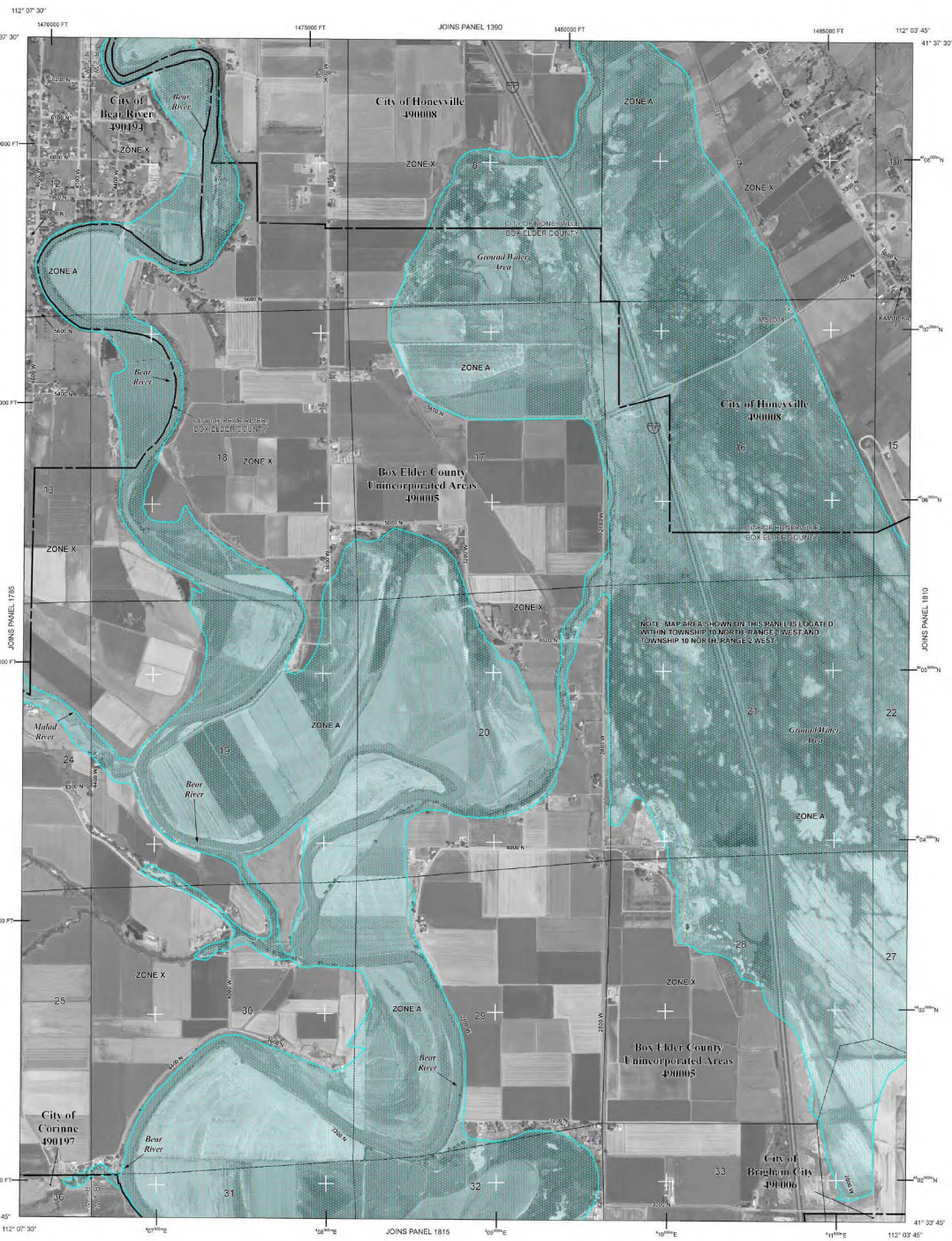
Based on updated topographic information, this map reflects more detailed and up-to-date stream channel configurations and floodplain delineations than those shown on the previous FIRM for this jurisdiction. As a result, the Flood Profiles and Floodway Data tables may reflect stream channel distances that differ from what is shown on the map. Also, the road to floodplain relationships for unreviewed streams may differ from what is shown on previous maps.

Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed Map Index for an overview map of the county showing the layout of map panels, community map repository addresses, and a listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

Contact the FEMA Map Service Center at 1-800-358-9616 for information on available products associated with this FIRM. Available products may include previously issued Letters of Map Change, a Flood Insurance Study report, and/or digital versions of this map. The FEMA Map Service Center may also be reached by Fax at 1-800-358-9603 and its website at <http://www.fema.gov>.

If you have questions about this map or questions concerning the National Flood Insurance Program in general, please call 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA website at <http://www.fema.gov/business/info/>.



LEGEND

- SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD**
- The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Some of Special Flood Hazard areas include Zones A, AE, AO, AH, AR, A99, V, and VE. The Base Flood Elevation is the water surface elevation in feet.
- ZONE A** No Base Flood Elevations determined.
  - ZONE AH** Base Flood Elevations determined.
  - ZONE AO** Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
  - ZONE AR** Flood depths of 3 to 5 feet (usually sheet flow on sloping terrain); average depths determined. For areas of elevated flooding, velocities also determined.
  - ZONE A99** Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently destroyed. Zone AR indicates the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
  - ZONE V** Area to be protected from the 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
  - ZONE VE** Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
  - ZONE VE** Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

- FLOODWAY AREAS IN ZONE AE**
- The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment to that the 1% annual chance flood can be carried without substantial increases in flood heights.
- OTHER FLOOD AREAS**
- ZONE X** Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.
  - OTHER AREAS** Areas determined to be outside the 0.2% annual chance floodplain. Areas in which flood hazards are undetermined, but possible.
  - ZONE D** Areas in which flood hazards are undetermined, but possible.
- COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS**
- OTHERWISE PROTECTED AREAS (OPAs)**

- CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.
- 1% annual chance floodplain boundary
  - 0.2% annual chance floodplain boundary
  - Floodway boundary
  - Zone D boundary
  - CBRS and OPA boundary
  - Boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.
  - Base Flood Elevation value where uniform within zone; elevation in feet.
  - Base Flood Elevation value where uniform within zone; elevation in feet.

- \* Referenced to the North American Vertical Datum of 1988
- 1 Cross section line
  - 2 Transect line
  - Geographic coordinates referenced to the North American Datum of 1983 (NAD 83)
  - 1000-meter Universal Transverse Mercator grid zones, zone 12
  - 5000-foot grid ticks; UTM State Plane coordinate system, north zone (EPSG:3143), Lambert Conformal Conic projection
  - Search mark (see explanation in Notes to Users section of this FIRM panel)
  - M 1:5 River Mile

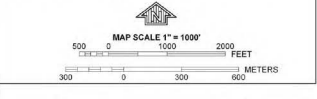
MAP REPOSITORY  
Refer to listing of Map Repositories on Map Index

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP  
SEPTEMBER 29, 2010

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

For community map revision history prior to countywide mappings, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-358-9600.



**NATIONAL FLOOD INSURANCE PROGRAM**

**PANEL 1805D**

**FIRM FLOOD INSURANCE RATE MAP**

**BOX ELDER COUNTY, UTAH AND INCORPORATED AREAS**

**PANEL 1805 OF 3500**  
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

COMMUNITY	NUMBER	PANEL	START	STOP
BEAR RIVER CITY OF	490000	1805	0	0
BRIGHAM CITY OF	490000	1805	0	0
CORINNE CITY OF	490000	1805	0	0
HONEYVILLE CITY OF	490000	1805	0	0

Notice to User: The Map Number shown below should be used when plotting map orders. The Community Number shown above should be used on insurance applications for the subject community.

**MAP NUMBER 49003C1805D**

**EFFECTIVE DATE SEPTEMBER 29, 2010**

Federal Emergency Management Agency

NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The community map repository should be consulted for possible updated or additional flood hazard information.

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Boundaries of the floodways were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Floodway Data table shown on this FIRM.

Certain areas not in Special Flood Hazard Areas may be protected by flood control structures. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this jurisdiction.

The projection used in the preparation of this map was State Plane Utah North 4301 Horizontal datum was NAD 83, GRS80 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

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NGS Information Services  
NCAA, NVD512  
National Geodetic Survey  
SSM-C, 96032  
1315 East-West Highway  
Silver Spring, Maryland 20910-3282  
(301) 713-3242

To obtain current elevation, description, and/or location information for bench marks shown on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) 713-3242, or visit its website at <http://www.ngs.noaa.gov/>.

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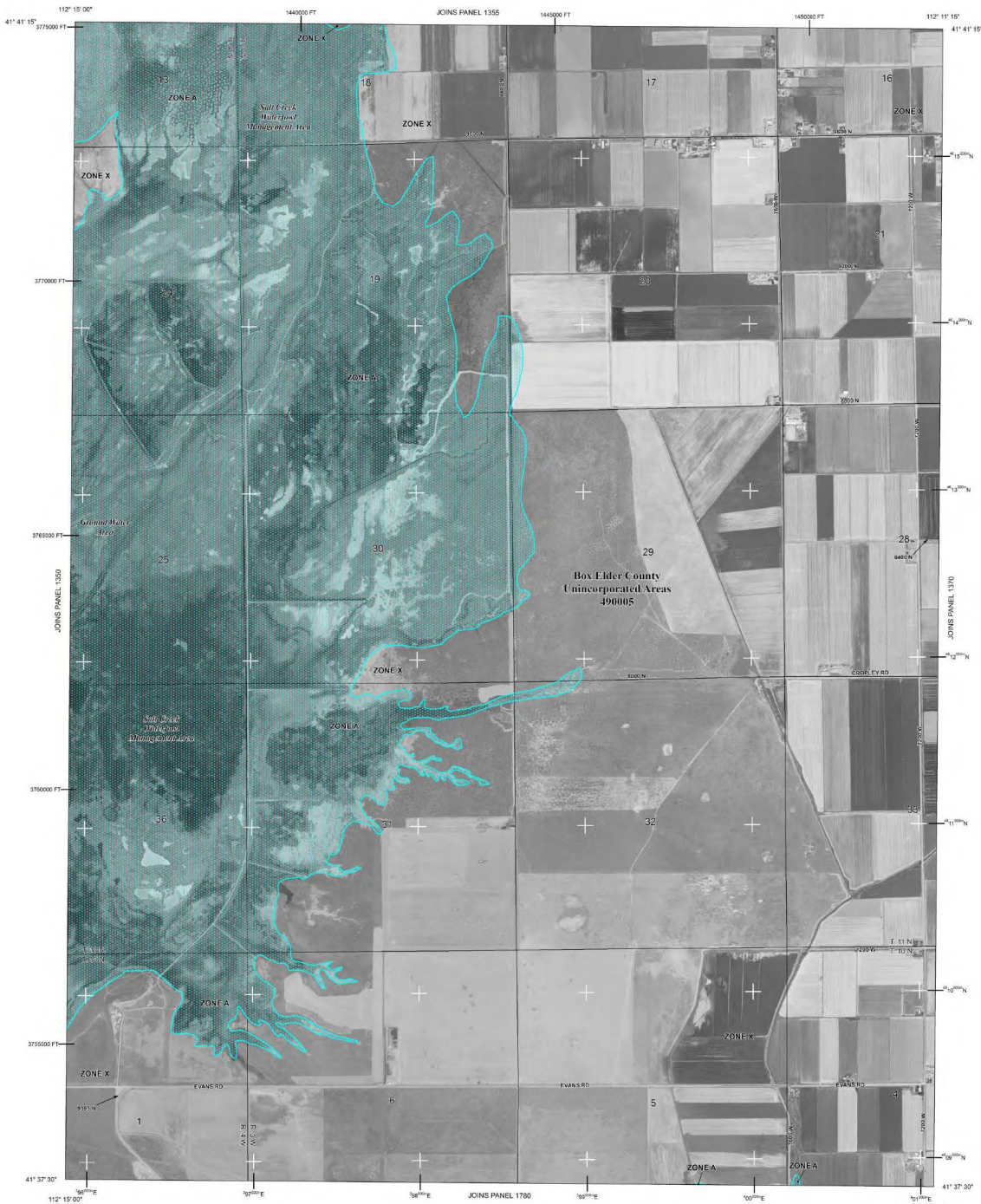
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LEGEND

SPECIAL FLOOD HAZARD AREAS (SFHAS) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zone A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water surface elevation of the 1% annual chance flood.

- ZONE A No Base Flood Elevations determined; Base Flood Elevations determined.
ZONE AE Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
ZONE AH Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of cultural site flooding, velocities also determined.
ZONE AO Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decommissioned. Zone AO indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
ZONE AR Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
ZONE V Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
ZONE VE Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be moved without substantial increase in flood height.

- OTHER FLOOD AREAS
ZONE X Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.
OTHER AREAS
ZONE X Areas determined to be outside the 0.2% annual chance floodplain.
ZONE D Areas in which flood hazards are undetermined, but possible.

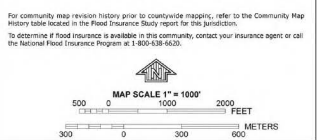
COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

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- CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.
1% annual chance floodplain boundary
0.2% annual chance floodplain boundary
Floodway boundary
Zone D boundary
CBRS and OPA boundary
Boundary within Special Flood Hazard Area of different Base Flood Elevations, flood depths or flood velocities.
Base Flood Elevation line and value, elevation in feet.
Base Flood Elevation value where uniform within zone, elevation in feet.
(EI, 987)

- Referenced to the North American Vertical Datum of 1988
Cross section line
Transect line
Geographic coordinates referenced to the North American Datum of 1983 (NAD 83)
1000-meter Universal Transverse Mercator grid units, zone 12
5000-foot grid ticks, Utah State Plane coordinate system, north (SPZONE 12U1) Lambert Conformal Conic projection
Bench mark (see explanation in Notes to Users section of this FIRM panel)
DX5510 X
M 1.5 River Mile

MAP REPOSITORY
Refer to listing of Map Repositories on Map Index
EFFECTIVE DATE OF COUNTY-WIDE FLOOD INSURANCE RATE MAP
SEPTEMBER 29, 2010
EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL



NATIONAL FLOOD INSURANCE PROGRAM
PANEL 1365D
FIRM
FLOOD INSURANCE RATE MAP
BOX ELDER COUNTY, UTAH AND INCORPORATED AREAS
PANEL 1365 OF 3500
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)
CONDITIONS:
COMMITTEE: BOX ELDER COUNTY NUMBER: 1000 PANEL: SUPER: 0
Notice to User: The Map Number shown below should be used when filing Map Applications for Community-Based Flood Insurance. The information shown above should be used on insurance applications for the individual community.
MAP NUMBER 49003C1365D
EFFECTIVE DATE SEPTEMBER 29, 2010
Federal Emergency Management Agency

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NGS Information Services  
NCAA, NW0512  
National Geodetic Survey  
835M-C, 90502  
1315 East-West Highway  
Silver Spring, Maryland 20910-3282  
(301) 713-3342

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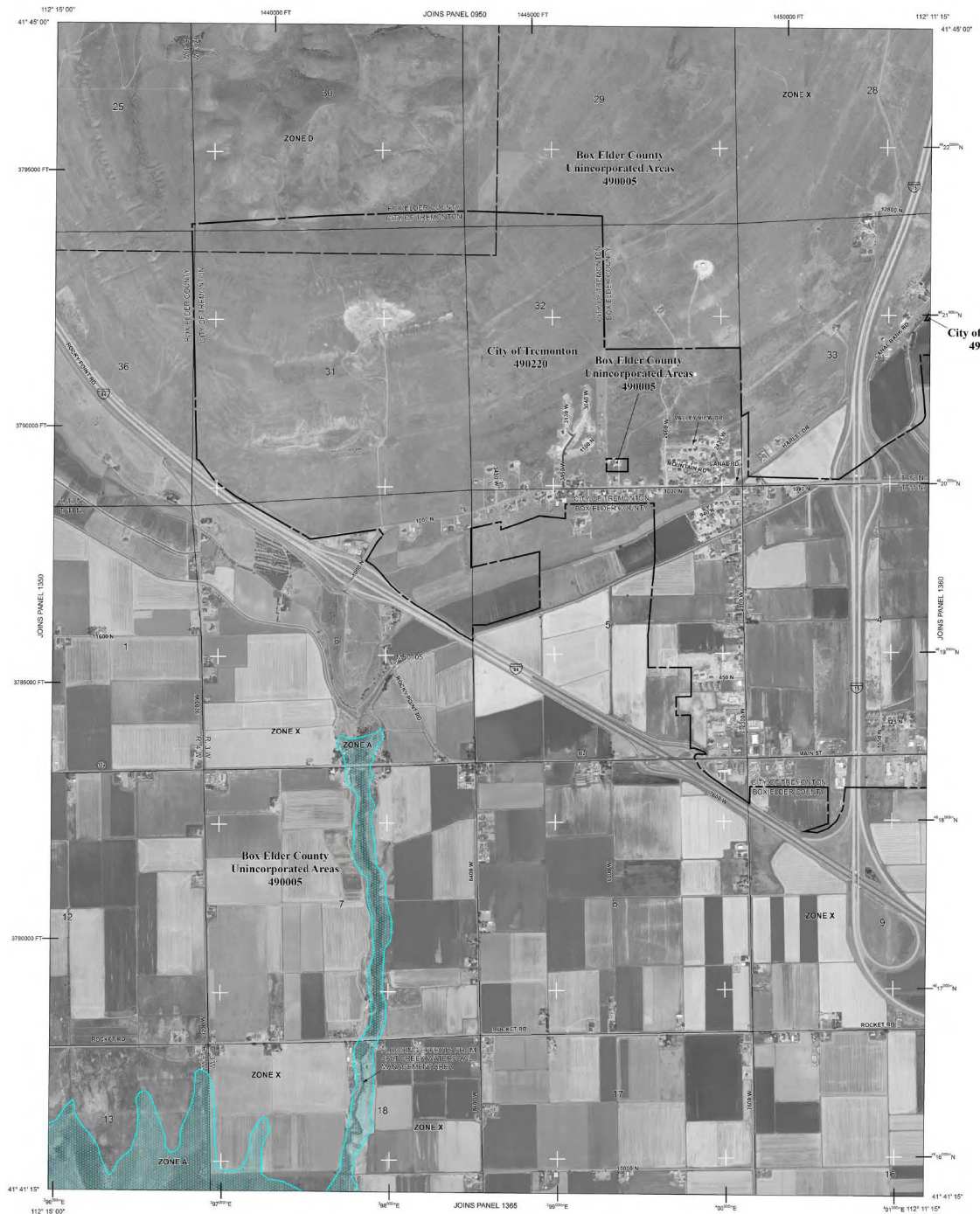
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LEGEND

- SPECIAL FLOOD HAZARD AREAS (SFHAS) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD
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ZONE A No Base Flood Elevations determined; Base Flood Elevations determined.
ZONE AH Flood depths of 1 to 3 feet (usually areas of ponds); Base Flood Elevations determined.
ZONE AO Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of substantial flooding, velocities also determined.
ZONE AR Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decommissioned. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
ZONE AR9 Area to be protected from the 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
ZONE V Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
ZONE VE Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

- FLOODWAY AREAS IN ZONE AE
The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachments so that the 1% annual chance flood can be moved without substantial increase in flood heights.
OTHER FLOOD AREAS
ZONE X Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile, and areas protected by levees from 1% annual chance flood.
OTHER AREAS
ZONE X Areas determined to be outside the 0.2% annual chance floodplain.
ZONE D Areas in which flood hazards are undetermined, but possible.

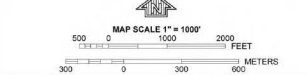
- COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS
OTHERWISE PROTECTED AREAS (OPAs)
CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

- 1% annual chance floodplain boundary
0.2% annual chance floodplain boundary
Floodway boundary
Zone D boundary
Zone X boundary
CBRS and OPA boundary
Boundary within Special Flood Hazard Area of different Base Flood Elevations, flood depths or flood velocities.
Base Flood Elevation line and value, elevation in feet.
Base Flood Elevation value where uniform within zone; elevation in feet.
(EI: 987)

- Referenced to the North American Vertical Datum of 1988
Cross section line
Transect line
Geographic coordinates referenced to the North American Datum of 1983 (NAD 83)
1000-meter Universal Transverse Mercator grid values, zone 12
5000-foot grid ticks; Utah State Plane coordinate system, north zone (SPZONE 5003), Lambert Conformal Conic projection
Bench mark (see explanation in Notes to Users section of this FIRM panel)
DX5510 X
M 1.5
River Mile

MAP REPOSITORY
Refer to listing of Map Repositories on Map Index
EFFECTIVE DATE OF COUNTY-WIDE FLOOD INSURANCE RATE MAP
SEPTEMBER 29, 2010
EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

For community map revision history prior to countywide mappings, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.
To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-358-9600.



NATIONAL FLOOD INSURANCE PROGRAM
PANEL 1355D
FIRM FLOOD INSURANCE RATE MAP
BOX ELDER COUNTY, UTAH AND INCORPORATED AREAS
PANEL 1355 OF 3500
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)
CONTAINS:
COMMUNITY NUMBER PANEL SURFER
BOX ELDER COUNTY 49000 1355 D
GARLAND CITY OF 49000 1355 D
INDIANWELL CITY OF 49000 1355 D
Notice to User: The Map Number shown below should be used when purchasing map products. The Community Number shown above should be used on insurance applications for the subject community.
MFP NUMBER 49003C1355D
EFFECTIVE DATE SEPTEMBER 29, 2010
Federal Emergency Management Agency

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NGS Information Services  
NCAA, NW5012  
National Geodetic Survey  
8336C, 69032  
1315 East-West Highway  
Silver Spring, Maryland 20910-3282  
(301) 713-3342

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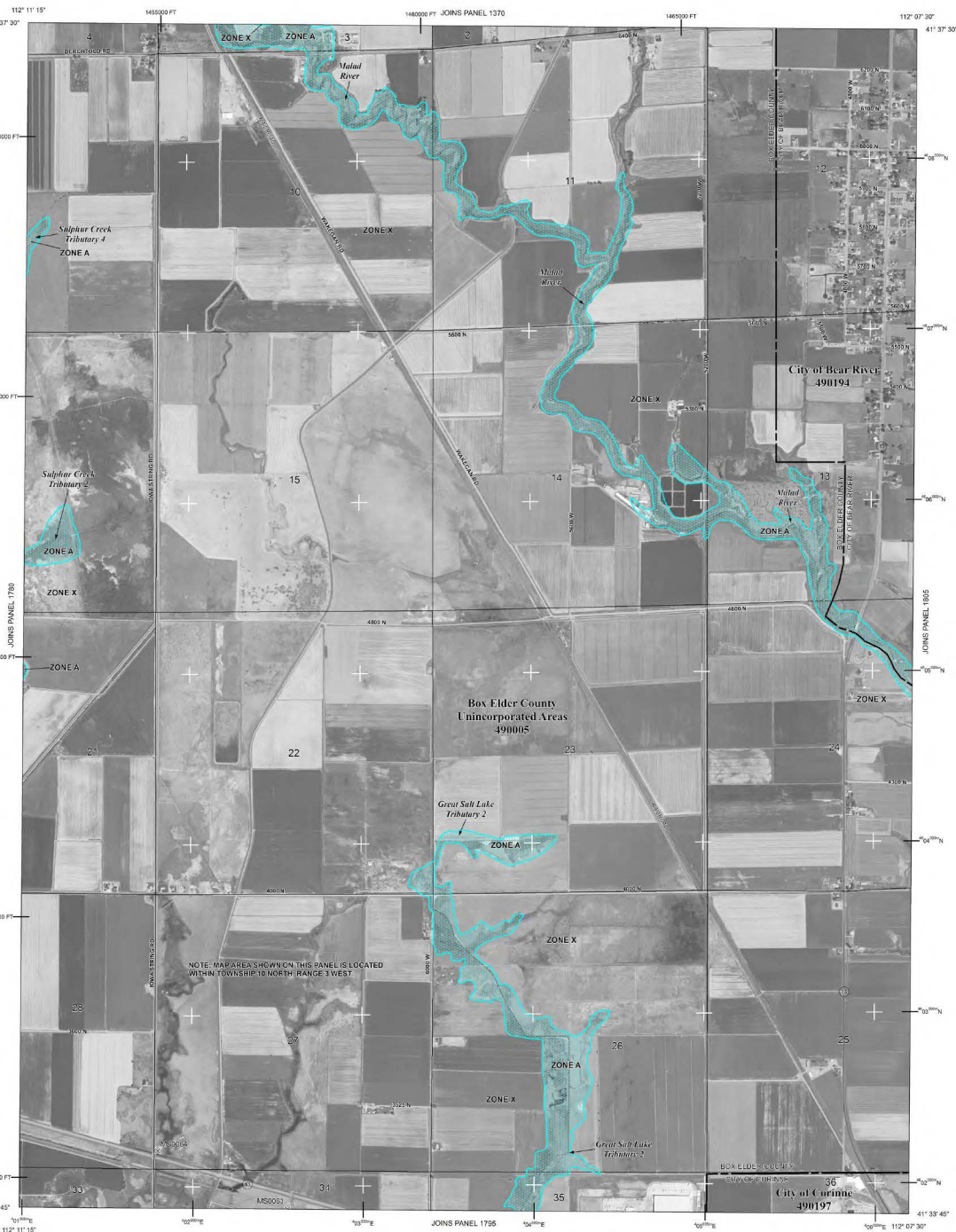
Based on updated topographic information, this map reflects more detailed and up-to-date stream channel configurations and floodplain delineations than those shown on the previous FIRM for this jurisdiction. As a result, the Flood Profiles and Floodway Data tables may reflect stream channel changes that differ from what is shown on the map. Also, the road to floodplain relationships for unimproved streams may differ from what is shown on previous maps.

Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed Map Index for an overview map of the county showing the layout of map panels; community map repository addresses; and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

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If you have questions about this map or questions concerning the National Flood Insurance Program in general, please call 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA website at <http://www.fema.gov/business/firm/>.



**LEGEND**

**SPECIAL FLOOD HAZARD AREAS (SFHAS) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD**

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazards include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water surface elevation of the 1% annual chance flood.

- ZONE A** No Base Flood Elevations determined; Base Flood Elevations determined.
- ZONE AE** Flood depths of 1 to 3 feet (usually areas of ponds); Base Flood Elevations determined.
- ZONE AH** Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of substantial flooding, velocities also determined.
- ZONE AO** Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decommissioned. Zone AO indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
- ZONE AR** Area to be protected from the 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
- ZONE A99** Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
- ZONE V** Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
- ZONE VE** Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

**FLOODWAY AREAS IN ZONE AE**

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be created without substantial increases in flood heights.

**OTHER FLOOD AREAS**

- ZONE X** Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

**OTHER AREAS**

- ZONE X** Areas determined to be outside the 0.2% annual chance floodplain.
- ZONE D** Areas in which flood hazards are undetermined, but possible.

**COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS**

**OTHERWISE PROTECTED AREAS (OPAs)**

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

- 1% annual chance floodplain boundary
- 0.2% annual chance floodplain boundary
- Floodway boundary
- Zone D boundary
- CBRS and OPA boundary
- Boundary of the Special Flood Hazard Area of different Base Flood Elevations, flood depths or flood velocities.
- Base Flood Elevation line and value, elevation in feet
- Base Flood Elevation value where uniform within zone; elevation in feet
- (E1, 987)

\* Referenced to the North American Vertical Datum of 1988

- Cross section line
- Transect line
- Geographic coordinates reference to the North American Datum of 1983 (NAD 83)
- 1000-meter Universal Transverse Mercator grid units, zone 12
- 5000-foot grid ticks; UTM, State Plane coordinate systems, north zone (SPZONE N981) Lambert Conformal Conic projection
- Bench mark (see explanation in Notes to Users section of this FIRM panel)
- DX5510 X
- M 1.5
- River Mile

**MAP REPOSITORY**  
Refer to listing of Map Repositories on Map Index

**EFFECTIVE DATE OF COUNTY-WIDE FLOOD INSURANCE RATE MAP**  
SEPTEMBER 29, 2010

**EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL**

For community map revision history prior to countywide mappings, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-368-6000.

**MAP SCALE 1" = 1000'**

500 0 1000 2000 FEET  
300 0 300 600 METERS

**NATIONAL FLOOD INSURANCE PROGRAM**

**PANEL 1785D**

**FIRM FLOOD INSURANCE RATE MAP**

**BOX ELDER COUNTY, UTAH AND INCORPORATED AREAS**

**PANEL 1785 OF 3500**  
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

**CONTAINS:**

COMMUNITY	NUMBER	PANEL	SUFFIX
BEAR RIVER, CITY OF	4903C	1785	D
BOX ELDER COUNTY	49000	1785	D
CORINNE, CITY OF	49019	1785	D

Notice to User: The Map Number shown below should be used when purchasing map sheets. This Community Number shown above should be used on insurance applications for the subject community.

**MAP NUMBER 4903C1785D**

**EFFECTIVE DATE SEPTEMBER 29, 2010**

**Federal Emergency Management Agency**

NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The community map repository should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where Base Flood Elevations (BFEs) and/or Floodways have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Boundaries of the floodways were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Floodway Data table shown on this FIRM.

Certain areas not in Special Flood Hazard Areas may be protected by flood control structures. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this jurisdiction.

The projection used in the preparation of this map was State Plane Utah North 4301 Horizontal datum was NAD 83, GRS80 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same vertical datum. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at <http://www.ngs.noaa.gov> or contact the National Geodetic Survey at the following address:

NGS Information Services  
NCAA, NW0512  
National Geodetic Survey  
835M-C, 90502  
1315 East-West Highway  
Silver Spring, Maryland 20910-3282  
(301) 713-3342

To obtain current elevation, description, and/or location information for bench marks shown on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) 713-3242, or visit its website at <http://www.ngs.noaa.gov>.

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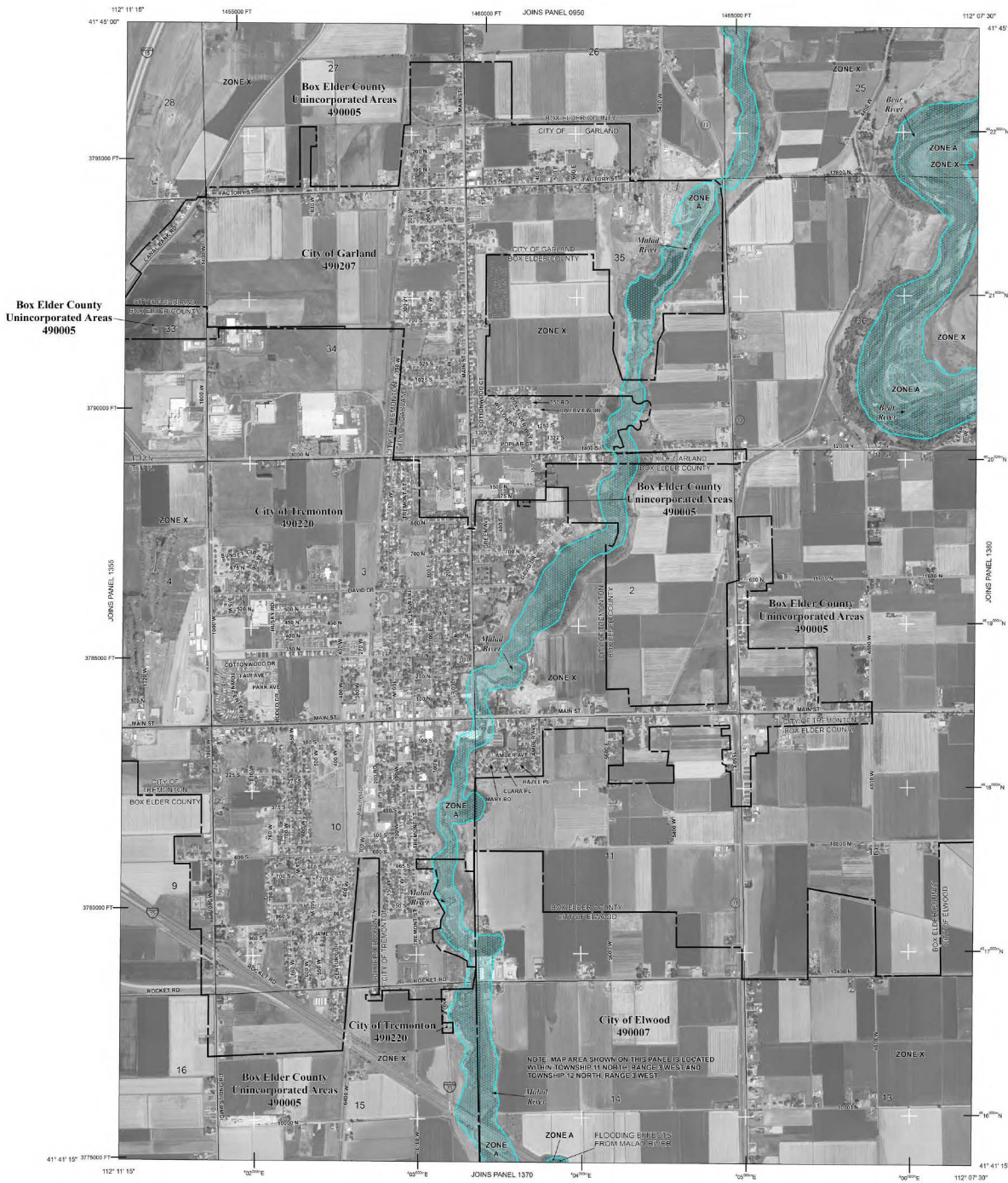
Based on updated topographic information, this map reflects more detailed and up-to-date stream channel configurations and floodplain delineations than those shown on the previous FIRM for this jurisdiction. As a result, the Flood Profiles and Floodway Data tables may reflect stream channel closures that differ from what is shown on the map. Also, the road to floodplain relationships for unreviewed streams may differ from what is shown on previous maps.

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LEGEND

SPECIAL FLOOD HAZARD AREAS (SFHAS) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazards include Zone A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water surface elevation of the 1% annual chance flood.

- ZONE A No Base Flood Elevations determined; Base Flood Elevations determined.
ZONE AH Flood depths of 1 to 3 feet (usually areas of ponds); Base Flood Elevations determined.
ZONE AO Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of cultural site flooding, velocities also determined.
ZONE AR Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decommissioned. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
ZONE A99 Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
ZONE V Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
ZONE VE Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be moved without substantial increase in flood heights.

- ZONE X OTHER FLOOD AREAS
Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or less drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

- OTHER AREAS
ZONE X Areas determined to be outside the 0.2% annual chance floodplain.
ZONE D Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

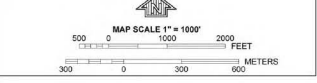
- 1% annual chance floodplain boundary
0.2% annual chance floodplain boundary
Floodway boundary
Zone D boundary
CBRS and OPA boundary
Boundary within Special Flood Hazard Area of different Base Flood Elevations, flood depths or flood velocities.
Base Flood Elevation line and value, elevation in feet.
Base Flood Elevation value where uniform within zone; elevation in feet.
(EL. 987)

\* Referenced to the North American Vertical Datum of 1988

- Geographic coordinates reference to the North American Datum of 1983 (NAD 83)
Transect line
Geographic coordinates reference to the North American Datum of 1983 (NAD 83)
1000-meter Universal Transverse Mercator grid values, zone 12
5000-foot grid ticks, Utah State Plane coordinate system, north zone (SPCRN 4301), Lambert Conformal Conic projection
Bench mark (see explanation in Notes to Users section of this FIRM panel)
DMS510 X
M 1.5 River Mile

MAP REPOSITORY
Refer to listing of Map Repositories on Map Index
EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP
SEPTEMBER 29, 2010
EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.
To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-358-9600.



NATIONAL FLOOD INSURANCE PROGRAM
FIRM FLOOD INSURANCE RATE MAP
BOX ELDER COUNTY, UTAH AND INCORPORATED AREAS
PANEL 1360 OF 3500
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)
CONTAINS:
COMMENT NUMBER PANEL STATUS
BOX ELDER COUNTY 49000 1360 D
ELWOOD, CITY OF 49000 1360 D
GARLAND, CITY OF 49000 1360 D
FREMONT, CITY OF 49000 1360 D
Notice to User: The Map Number shown below should be used when printing map sheets. The Community Map History table above should be used for insurance applications for the insured community.
MAP NUMBER 49003C1360D
EFFECTIVE DATE SEPTEMBER 29, 2010
Federal Emergency Management Agency
March 2026

NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The community map repository should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where Base Flood Elevations (BFEs) and/or Floodways have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Boundaries of the floodways were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Floodway Data table shown on this FIRM.

Certain areas not in Special Flood Hazard Areas may be protected by flood control structures. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this jurisdiction.

The projection used in the preparation of this map was State Plane Utah North 4301 Horizontal datum was NAD 83, GRS80 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRM for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same vertical datum. For information regarding conversion between the National Geodetic Survey Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at <http://www.ngs.noaa.gov> or contact the National Geodetic Survey at the following address:

NGS Information Services  
NCAA, NAD83/12  
National Geodetic Survey  
SSM-C, 99202  
1315 East-West Highway  
Silver Spring, Maryland 20910-3282  
(301) 713-3242

To obtain current elevation, description, and/or location information for bench marks shown on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) 713-3242, or visit its website at <http://www.ngs.noaa.gov/>.

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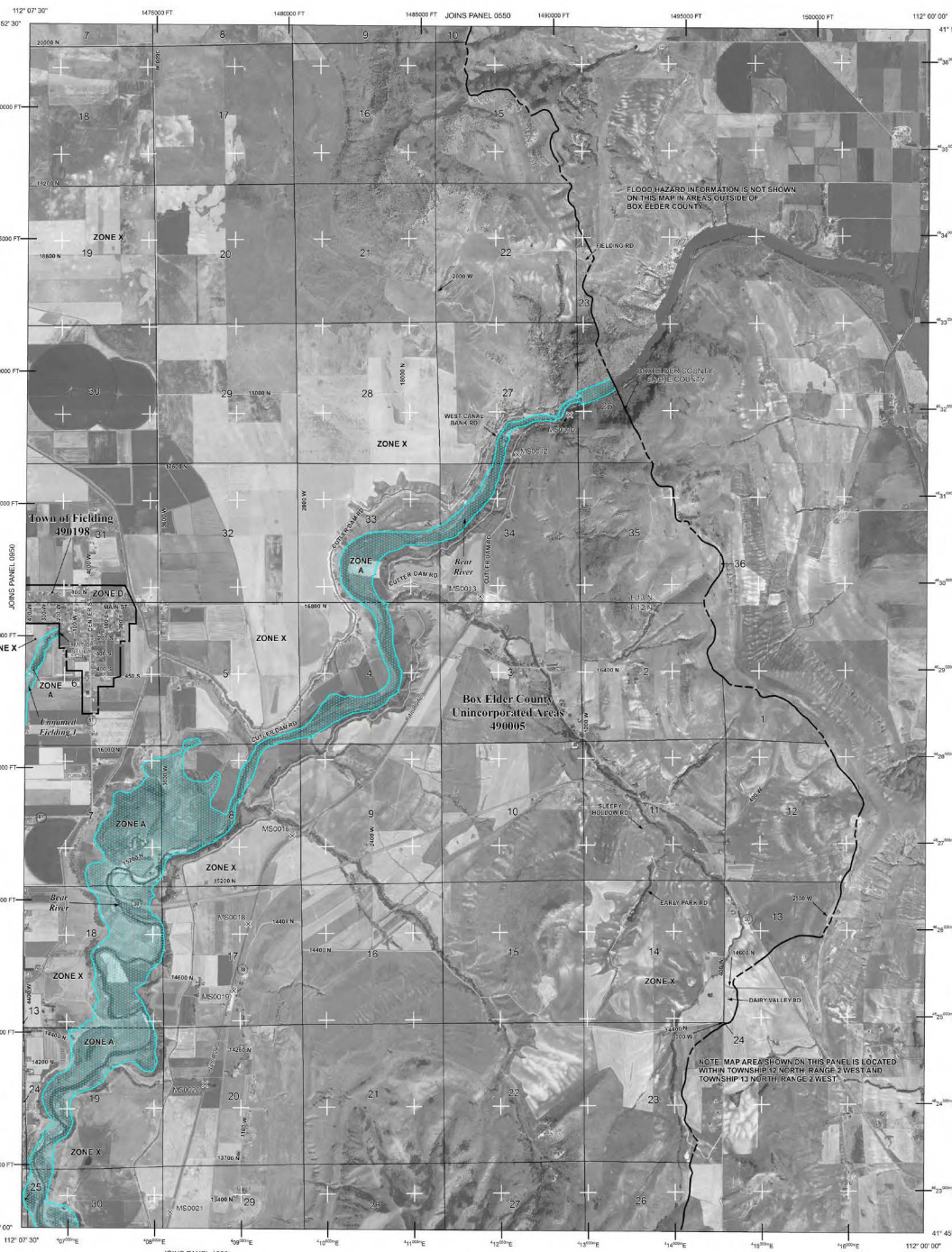
Based on updated topographic information, this map reflects more detailed and up-to-date stream channel configurations and floodplain delineations than those shown on the previous FIRM for this jurisdiction. As a result, the Flood Profiles and Floodway Data tables may reflect stream channel closures that differ from what is shown on the map. Also, the road to floodplain relationships for unincorporated streams may differ from what is shown on previous maps.

Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

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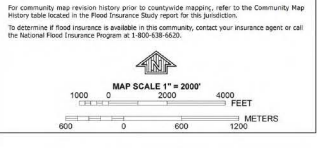
LEGEND

- SPECIAL FLOOD HAZARD AREAS (SFHAS) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD**
- The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water surface elevation of the 1% annual chance flood.
- ZONE A** No Base Flood Elevations determined; Base Flood Elevations determined.
  - ZONE AH** Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
  - ZONE AO** Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of cultivated land flooding, velocities also determined.
  - ZONE AR** Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decommissioned. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
  - ZONE A99** Area to be protected from the 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
  - ZONE V** Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
  - ZONE VE** Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.

- FLOODWAY AREAS IN ZONE AE**
- The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be moved without substantial increase in flood height.
- OTHER FLOOD AREAS**
  - ZONE X** Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

- OTHER AREAS**
- ZONE X** Areas determined to be outside the 0.2% annual chance floodplain. Areas in which flood hazards are undetermined, but possible.
- ZONE D** Areas in which flood hazards are undetermined, but possible.
- COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS**
- OTHERWISE PROTECTED AREAS (OPAs)**

- CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.
- 1% annual chance floodplain boundary
  - 0.2% annual chance floodplain boundary
  - Floodway boundary
  - Zone D boundary
  - CBRS and OPA boundary
  - Boundary within Special Flood Hazard Area of different Base Flood Elevations, flood depths or flood velocities.
  - Base Flood Elevation value, uniform within zone, elevation in feet.
  - Base Flood Elevation value, varies within zone, elevation in feet.
  - (E1, 987)
- \* Referenced to the North American Vertical Datum of 1988
- Cross section line
  - Transect line
  - Geographic coordinates referenced to the North American Datum of 1983 (NAD 83)
  - 1000-meter Universal Transverse Mercator grid values, zone 12
  - 5000-foot grid ticks, UTM, State Plane coordinate system, north zone (SPZONE=12N), Lambert Conformal Conic projection
  - Bench mark (see explanation in Notes to Users section of this FIRM panel)
  - DX5510 X
  - M 1.5
  - River Mile
- MAP REPOSITORY  
Refer to listing of Map Repositories on Map Index  
EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP  
SEPTEMBER 29, 2010  
EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL



**NATIONAL FLOOD INSURANCE PROGRAM**

**PANEL 0975D**

**FIRM FLOOD INSURANCE RATE MAP**

**BOX ELDER COUNTY, UTAH AND INCORPORATED AREAS**

**PANEL 975 OF 3500**  
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:  
COMMUNITY: BOX ELDER COUNTY  
FLOODING: FLOODING DP  
NUMBER: 490005  
DATE: 09/29/10  
PANEL: 0975  
SUBPANEL: D

Notice to User: The Map Number shown below should be used when filing a map request with the Community Map Repository. The Community Map Repository should be used on insurance applications for the insured community.

**MAP NUMBER 49003C0975D**

**EFFECTIVE DATE SEPTEMBER 29, 2010**

**Federal Emergency Management Agency**

NOTES TO USERS

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NGS Information Services  
NCAA, NWS012  
National Geodetic Survey  
SSM&S, 9602  
1315 East-West Highway  
Silver Spring, Maryland 20910-3282  
(301) 713-3342

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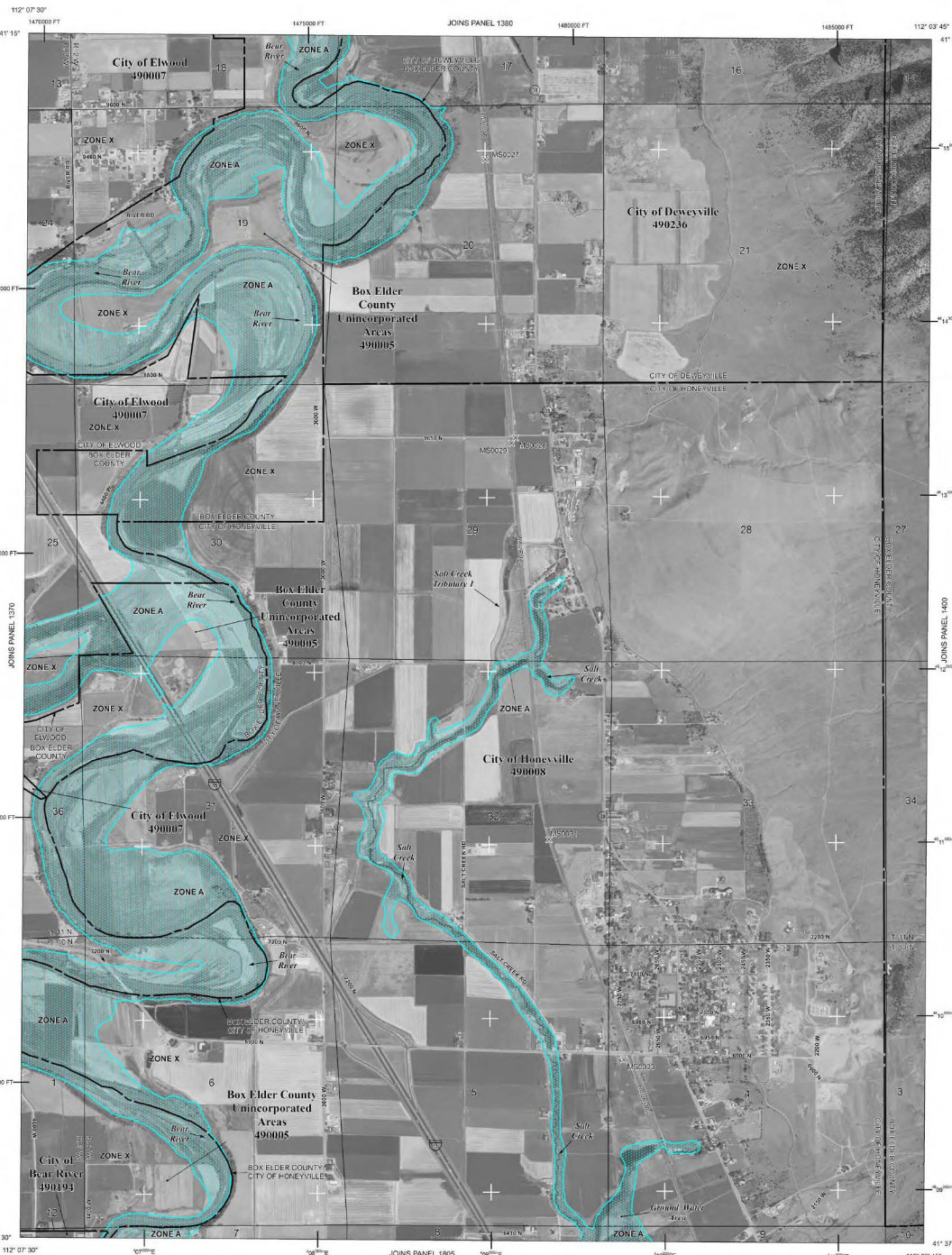
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LEGEND

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- ZONE A** No Base Flood Elevations determined; Base Flood Elevations determined.
  - ZONE AE** Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
  - ZONE AH** Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
  - ZONE AO** Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of cultural fee flooding, velocities also determined.
  - ZONE AR** Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decommissioned. Zone AR indicates the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
  - ZONE A99** Area to be protected from the 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
  - ZONE V** Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
  - ZONE VE** Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.

- FLOODWAY AREAS IN ZONE AE**
- The floodway is the channel of a stream plus any adjacent floodplain area that must be kept free of encroachment so that the 1% annual chance flood can be moved without substantial increase in flood heights.
- OTHER FLOOD AREAS**
- ZONE X** Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

- OTHER AREAS**
- ZONE X** Areas determined to be outside the 0.2% annual chance floodplain.
  - ZONE D** Areas in which flood hazards are undetermined, but possible.
- COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS**
- OTHERWISE PROTECTED AREAS (OPAs)**

- CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.
- 1% annual chance floodplain boundary
  - 0.2% annual chance floodplain boundary
  - Floodway boundary
  - Zone A boundary
  - Zone D boundary
  - CBRS and OPA boundary
  - Boundary within Special Flood Hazard Area of different Base Flood Elevations, flood depths or flood velocities.
  - Base Flood Elevation line and value, elevation in feet
  - Base Flood Elevation line and value, elevation in feet
  - (E1, 987)

Referenced to the North American Vertical Datum of 1988

- 1: Cross section line
- 2: Transect line

Geographic coordinates reference to the North American Datum of 1983 (NAD 83)

67°07'45", 32°22'30"

1000-meter Universal Transverse Mercator grid values, zone 12

5000-foot grid ticks. UTM. State Plane coordinate systems, north zone (GPO:2004-5001). Lambert Conformal Conic projection.

Bench mark (see explanation in Notes to Users section of this FIRM panel)

DX5510 x

M 1:5

River Mile

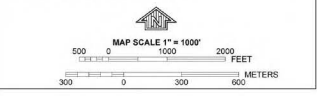
**MAP REPOSITORY**  
Refer to listing of Map Repositories on Map Index

**EFFECTIVE DATE OF FLOODWAY FLOOD INSURANCE RATE MAP**  
SEPTEMBER 29, 2010

**EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL**

For community map revision history prior to community inception, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-358-9600.



**NATIONAL FLOOD INSURANCE PROGRAM**

**PANEL 1390D**

**FIRM FLOOD INSURANCE RATE MAP**

**BOX ELDER COUNTY, UTAH AND INCORPORATED AREAS**

**PANEL 1390 OF 3500**  
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

COMMUNITY	NUMBER	PANEL	SUFFIX
BEAR RIVER, CITY OF	490014	1390	D
BOX ELDER COUNTY	490000	1390	D
DEWEYVILLE, CITY OF	490005	1390	D
ELWOOD, CITY OF	490007	1390	D
HONEYVILLE, CITY OF	490008	1390	D

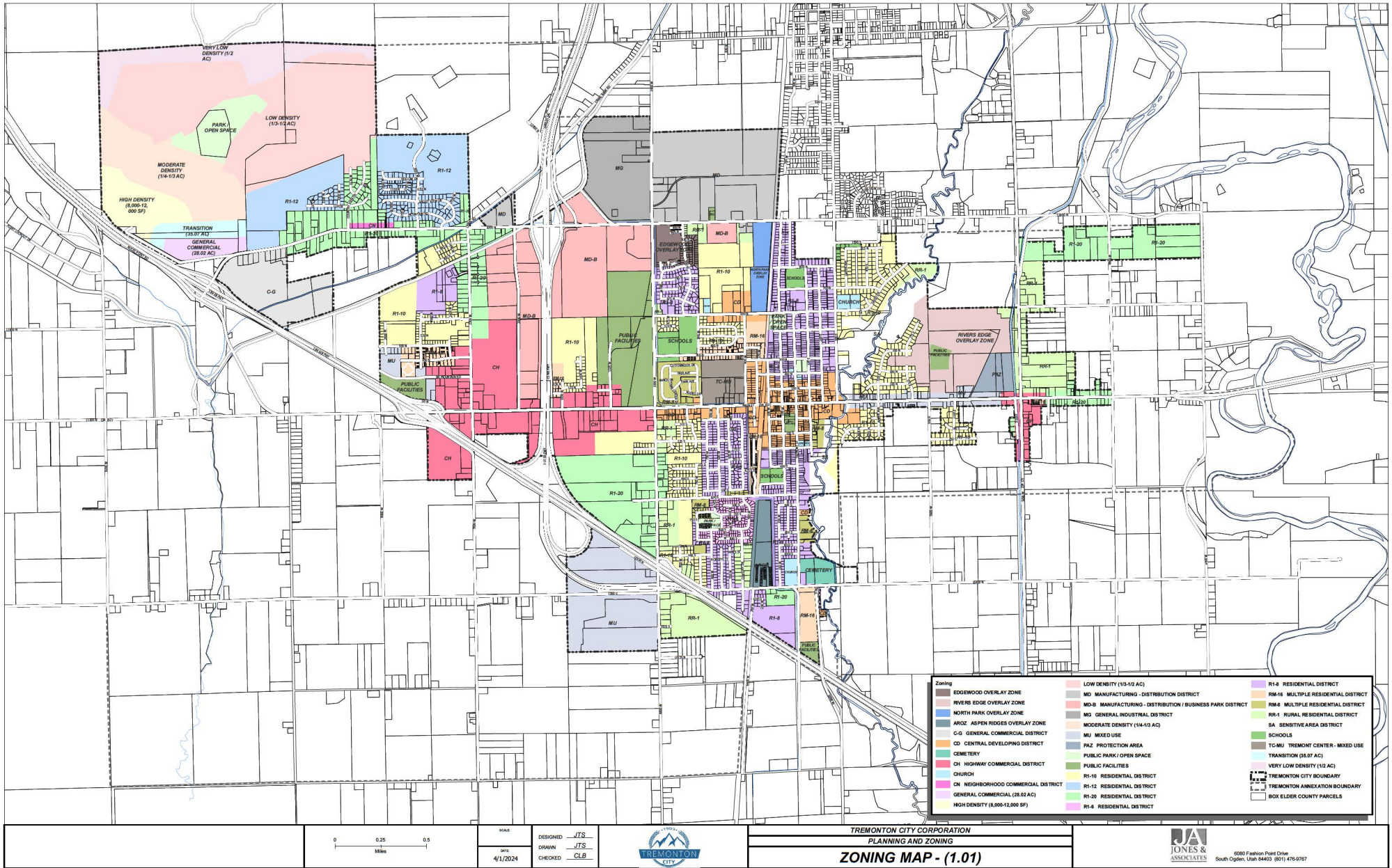
Notice to User: The Map Number shown below should be used when citing this map. The Community Map Number shown above should be used on insurance applications for the subject community.

**MAP NUMBER**  
49003C1390D

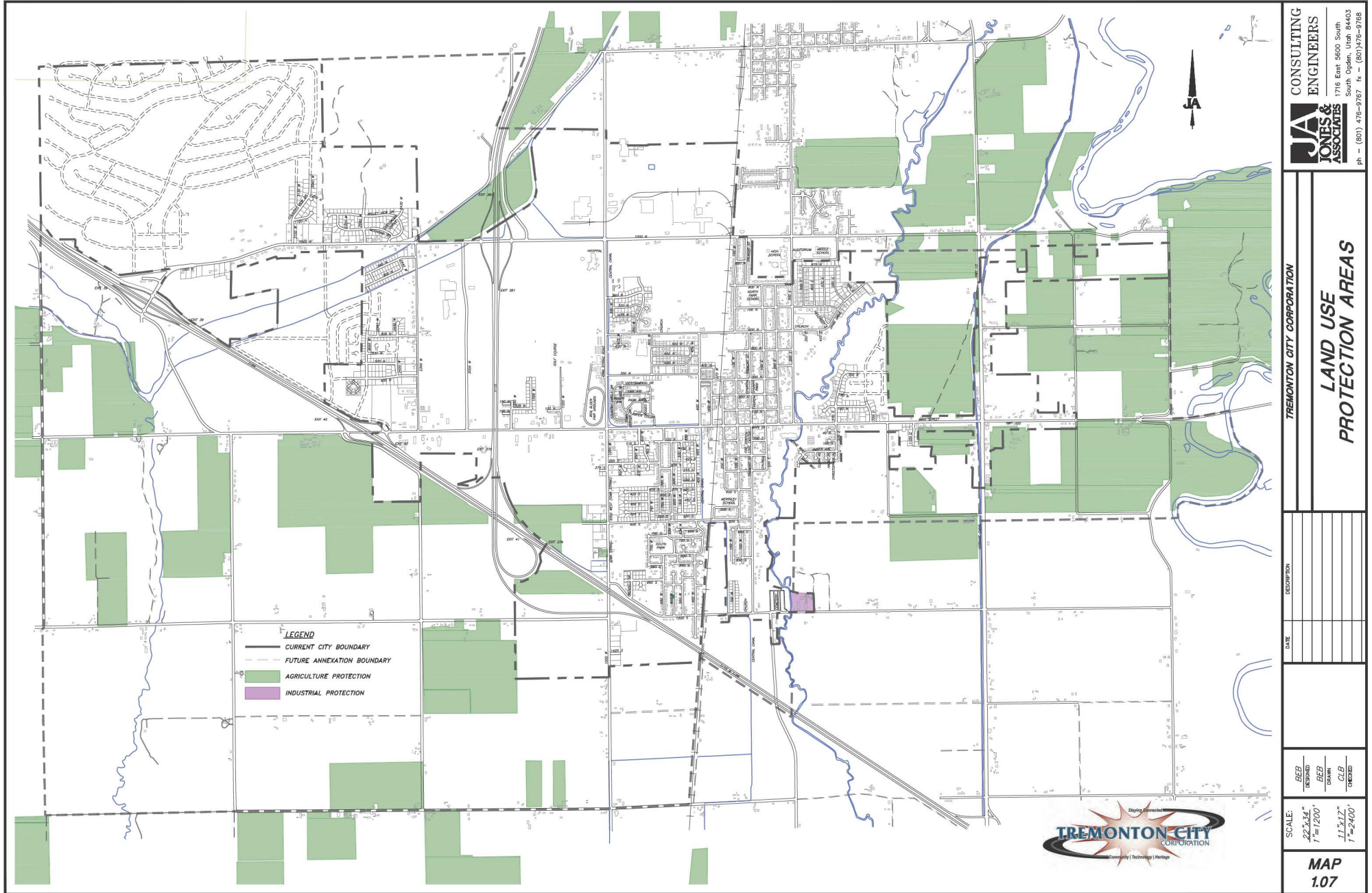
**EFFECTIVE DATE**  
SEPTEMBER 29, 2010

Federal Emergency Management Agency

## Map 6—Tremonton City Zoning Map



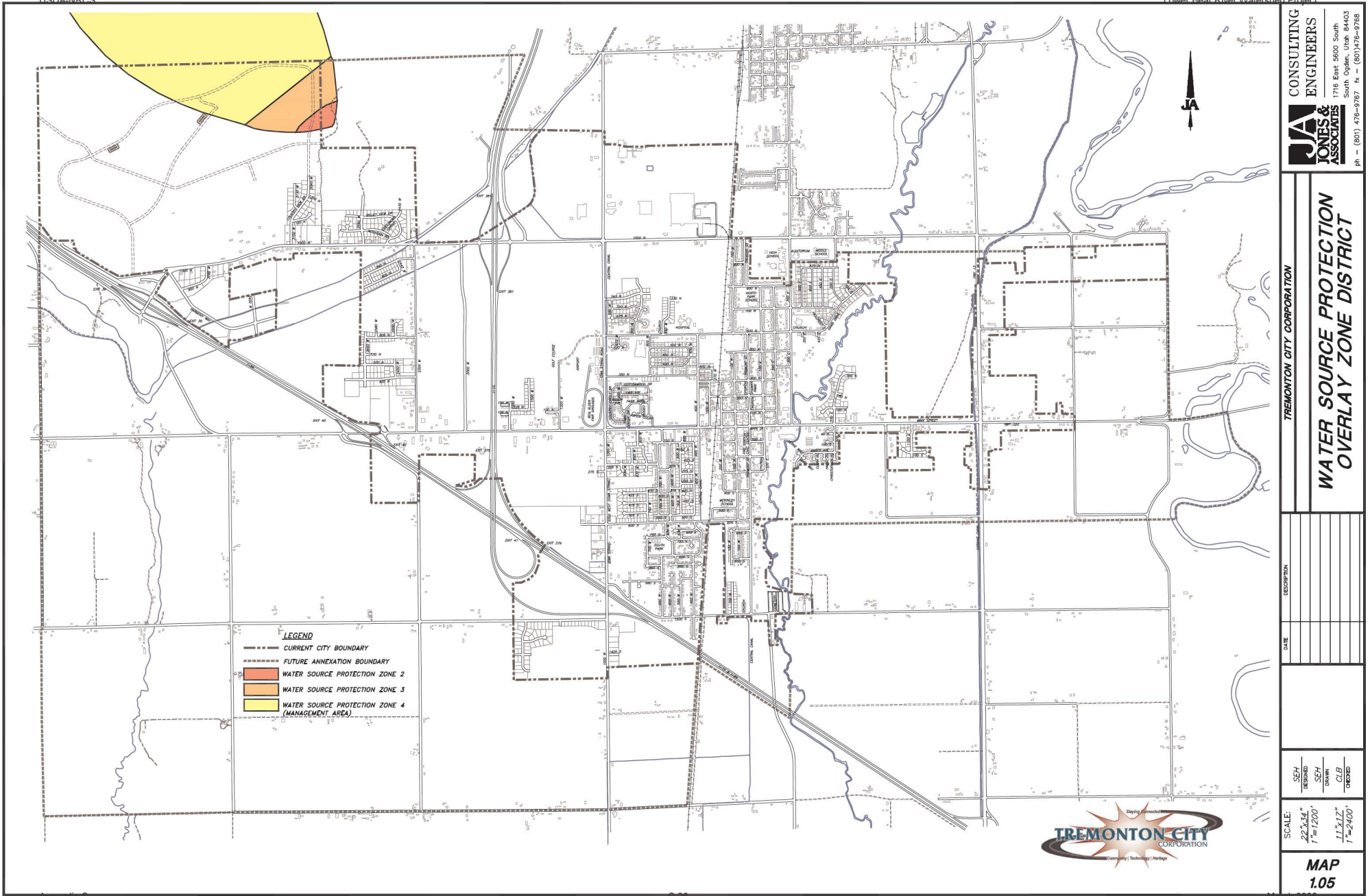
## Map 7—Tremonton City Land Use Protection Areas Map



## Map 8—Tremonton City Water Source Protection Zones Map

USDA NRCS

Lower Bear River Watershed Project



**J.A. CONSULTING ENGINEERS**  
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**TREMONTON CITY CORPORATION**  
**WATER SOURCE PROTECTION OVERLAY ZONE DISTRICT**

DATE	DESCRIPTION

SCALE:	SEH	SEH	CLB
22" x 34"	REVISION	DATE	CREATED
1" = 1200'			
11" x 17"			
1" = 2400'			

**MAP 1.05**

Appendix C

C-26

March 2026

## Map 9—Elwood Town Zoning Map

