

**FINAL**

**BEAR RIVER/MALAD RIVER SUBBASIN  
ASSESSMENT AND TOTAL MAXIMUM DAILY  
LOAD PLAN**

**for HUCs 16010102, 16010201, 16010202, 16010204**

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## Abbreviations

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|        |                                                 |
|--------|-------------------------------------------------|
| BMP    | best management practice                        |
| cfs    | cubic feet per second                           |
| GIS    | geographical information system                 |
| HUC    | hydrologic unit code                            |
| kg/day | kilograms per day                               |
| LBR    | Lower Basin Runoff                              |
| mg/L   | milligrams per liter                            |
| MR     | Management Reach                                |
| NPDES  | National Pollutant Discharge Elimination System |
| Rm     | river mile                                      |
| RW     | Receiving Waters Reach                          |
| SBF    | Summer Base Flow                                |
| TDS    | total dissolved solids                          |
| TMDL   | total maximum daily load                        |
| TP     | total phosphorus                                |
| TSS    | total suspended solids                          |
| UBR    | Upper Basin Runoff                              |
| WBF    | Winter Base Flow                                |
| WWTP   | waste water treatment plant                     |

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## Cross Reference for Water Body Identification

(NOTE: assessment units may include more than the specified water body.)

| HUC                  | Water body             | Water quality limited segment boundary |                                      | Water quality standards unit | Water quality limited segment number     | Assessment unit            |
|----------------------|------------------------|----------------------------------------|--------------------------------------|------------------------------|------------------------------------------|----------------------------|
|                      |                        | Upper                                  | Lower                                |                              |                                          |                            |
| 16010102             | Bear River             | Wyoming border                         | Railroad bridge (T14N, R45E, Sec 21) | B-1                          | 2273                                     | BR001_05                   |
|                      | Thomas Fork            | Wyoming border                         | Bear River                           | B-3                          | 2274                                     | BR003_04                   |
|                      | Dry Creek              | Headwaters                             | Thomas Fork                          | B-5                          | 2276                                     | BR001_02;<br>BR005_02, 02a |
|                      | Preuss Creek           | Forest Service boundary                | Thomas Fork                          | B-6                          | 2275                                     | BR006_02                   |
|                      | Pegram Creek           |                                        |                                      | B-2                          |                                          | BR002_02, 03;<br>BR001_02  |
|                      | Sheep Creek            |                                        |                                      | B-8                          |                                          | BR008_02, 03               |
| 16010201             | Bear River             | Railroad bridge (T14N, R45E, Sec 21)   | Wardboro                             | B-2                          | 2273                                     | BR001_0L;<br>BR002_05      |
|                      | Bear River             | Wardboro                               | Alexander Reservoir                  | B-2                          | 2253                                     | BR002_05, 06               |
|                      | Alexander Reservoir    |                                        |                                      | B-1                          | 2252                                     | BR001_0L                   |
|                      | St. Charles Creek      | Lower Idaho Dept of Lands boundary     | Refuge                               | B-16                         | 2268                                     | BR016_03, 03b              |
|                      | Paris Creek            |                                        |                                      | B-13                         |                                          | BR013_02, 02b              |
|                      | Sleight Canyon         |                                        |                                      |                              |                                          | BR013_02a                  |
|                      | Indian Creek           |                                        |                                      |                              |                                          | BR018_0La                  |
|                      | Bear River old channel |                                        |                                      |                              |                                          | BR002_05                   |
|                      | Little Beaver Creek    |                                        |                                      |                              |                                          | BR020_02a                  |
|                      | Snowslide Canyon       | Headwaters                             | Montpelier Creek                     | B-21                         | 2265                                     | BR021_02;<br>BR020_02f     |
|                      | Ovid Creek             | Confluence North & Mill creeks         | Bear River                           | B-9                          | 2261                                     | BR009_04                   |
|                      | North Creek            | Unnamed trib 3.2 km bel Mill Hollow    | Ovid Creek                           | B-10                         | 5251                                     | BR010_02d, 03              |
|                      | Meadow Creek           | Headwaters                             | North Creek                          |                              | 5121                                     | BR010_02c                  |
|                      | Liberty Creek          |                                        |                                      |                              |                                          | BR011_02a                  |
|                      | Georgetown Creek       |                                        |                                      | B-22                         |                                          | BR022_02b, 03a             |
|                      | Stauffer Creek         |                                        |                                      | B-6                          |                                          | BR006_02c, 02d,<br>03      |
|                      | Co-Op Creek            | Forest Service boundary                | Stauffer Creek                       | B-8                          | 2259                                     | BR008_02, 02a;<br>BR007_02 |
|                      | Skinner Creek          |                                        |                                      | B-7                          |                                          | BR007_02a;<br>BR002_02c    |
|                      | Pearl Creek            | North Fork Pearl Creek                 | Bear River                           | B-5                          | 2257                                     | BR005_02, 02a              |
|                      | Eightmile Creek        |                                        |                                      | B-4                          |                                          | BR004_02, 03,<br>03a       |
| Wilson Creek         |                        |                                        |                                      |                              | BR004_02a                                |                            |
| Sulpher Canyon Creek |                        |                                        |                                      |                              | BR002_02a                                |                            |
| Bailey Creek         |                        |                                        | B-3                                  |                              | BR003_02, 02a                            |                            |
| Soda Creek           |                        |                                        | B-23, -25                            |                              | BR025_02;<br>BR024_02;<br>BR023_02a, 02b |                            |

| HUC      | Water body               | Water quality limited segment boundary |                  | Water quality standards unit | Water quality limited segment number | Assessment unit            |
|----------|--------------------------|----------------------------------------|------------------|------------------------------|--------------------------------------|----------------------------|
|          |                          | Upper                                  | Lower            |                              |                                      |                            |
| 16010202 | Bear River               | Alexander Reservoir                    | Cove Power Plant | B-9                          | 2236                                 | BR009_06                   |
|          | Bear River               | Cove Power Plant                       | Oneida Dam       | B-9                          | 2235                                 | BR009_06, 06a              |
|          | Bear River               | Oneida Dam                             | Mink Creek       | B-6                          | 2233                                 | BR006_06                   |
|          | Bear River               | Mink Creek                             | Highway 91       | B-6                          | 2232                                 | BR006_06                   |
|          | Bear River               | Highway 91                             | Utah border      | B-6                          | 2231                                 | BR006_06                   |
|          | Oneida Narrows Reservoir |                                        |                  | B-8                          | 2234                                 | BR008_0L                   |
|          | Densmore Creek           | Headwaters                             | Bear River       | B-13                         | 2249                                 | BR013_02                   |
|          | Smith Creek              |                                        |                  |                              |                                      | BR009_02a                  |
|          | Alder Creek              |                                        |                  |                              |                                      | BR009_02b                  |
|          | Whiskey Creek            | Headwaters                             | Bear River       | B-12                         | 2248                                 | BR012_02                   |
|          | Burton Creek             |                                        |                  |                              |                                      | BR009_02, 02c              |
|          | Trout Creek              |                                        |                  | B-11                         |                                      | BR011_02, 03               |
|          | Williams Creek           | Right Fork Williams Creek              | Bear River       | B-10                         | 2246                                 | BR010_02                   |
|          | Cottonwood Creek:        | Tributary 6.4 km upstream              | Bear River       | B-14                         | 2245                                 | BR014_04                   |
|          | Mink Creek               |                                        |                  | B-7                          |                                      | BR007_02, 03               |
|          | Strawberry Creek         | Forest Service boundary                | Mink Creek       |                              | 5256                                 | BR007_02                   |
|          | Battle Creek             | Headwaters                             | Bear River       | B-15                         | 2240                                 | BR015_02, 03, 04           |
|          | Deep Creek               | Oxford Slough                          | Bear River       |                              | 5252                                 | BR006_02                   |
|          | Swan Lake Creek          |                                        |                  | B-18                         |                                      | BR018_02b                  |
|          | Stockton Creek           |                                        |                  | B-18                         |                                      | BR018_03a                  |
|          | Fivemile Creek           | Headwaters                             | Bear River       | B-19                         | 5253                                 | BR019_02, 02a              |
|          | Weston Creek             | Headwaters                             | Bear River       | B-20                         | 2238                                 | BR020_02, 02c, 02d, 03, 04 |
|          | Trail Hollow             |                                        |                  |                              |                                      | BR020_02d                  |
|          | Black Canyon             |                                        |                  |                              |                                      | BR020_02a                  |
|          | Cub River                | Sugar Creek                            | Utah border      | B-2, -3                      | 2237                                 | BR003_03; BR002_04         |
|          | Maple Creek              | Left Fork Maple Creek                  | Cub River        |                              | 5255                                 | BR003_02, 03               |
|          | Worm Creek               | Glendale Reservoir                     | Utah border      | B-5                          | 5254                                 | BR005_02                   |
|          | Jenkins Hollow           |                                        |                  | B-21                         |                                      | BR021_02                   |
|          | Steel Canyon             |                                        |                  |                              |                                      | BR021_02a                  |

| HUC      | Water body         | Water quality limited segment boundary |                    | Water quality standards unit | Water quality limited segment number | Assessment unit                                     |
|----------|--------------------|----------------------------------------|--------------------|------------------------------|--------------------------------------|-----------------------------------------------------|
|          |                    | Upper                                  | Lower              |                              |                                      |                                                     |
| 16010204 | Malad River        | Headwaters                             | Pleasant View      | B-12                         | 2285                                 | BR008_02;<br>BR012_02                               |
|          | Malad River        | Pleasant View                          | Little Malad River | B-12                         |                                      | BR012_02                                            |
|          | Malad River        | Little Malad River                     | Utah border        | B-1                          |                                      | BR001_04                                            |
|          | Little Malad River | Headwaters                             | Malad River        | B-8                          | 2292                                 | BR009_02;<br>BR008_02, 04                           |
|          | Wright Creek       | Headwaters                             | Daniels Reservoir  | B-10                         | 2294                                 | BR010_02b, 03,<br>04                                |
|          | Dairy Creek        | Headwaters                             | Wright Creek       | B-11                         | 5259                                 | BR011_02, 03                                        |
|          | Indian Mill Creek  |                                        |                    |                              |                                      | BR010_02a                                           |
|          | Elkhorn Creek      | Forest Service boundary                | Little Malad River |                              | 5258                                 | BR008_02                                            |
|          | Samaria Creek      | Headwaters                             | Malad River        | B-13                         | 2289                                 | BR013_02, 03                                        |
|          | Devil Creek        | Devil Creek Reservoir                  | Malad River        | B-2                          | 2290                                 | BR002_02d, 03                                       |
|          | Campbell Creek     |                                        |                    |                              |                                      | BR002_02a                                           |
|          | Evans Creek        |                                        |                    |                              |                                      | BR002_02c                                           |
|          | Deep Creek         | Headwaters                             | Mouth              | B-5, -7                      | 5257                                 | BR007_02, 03;<br>BR006_03;<br>BR005_03;<br>BR001_02 |
|          | Susan Hollow       |                                        |                    |                              |                                      | BR006_02                                            |
|          | Four Mile Canyon   |                                        |                    |                              |                                      | BR001_02b                                           |
|          | West Cherry Creek  |                                        |                    |                              |                                      | BR001_02c                                           |
|          | Henderson Creek    |                                        |                    |                              |                                      | BR001_02d                                           |

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