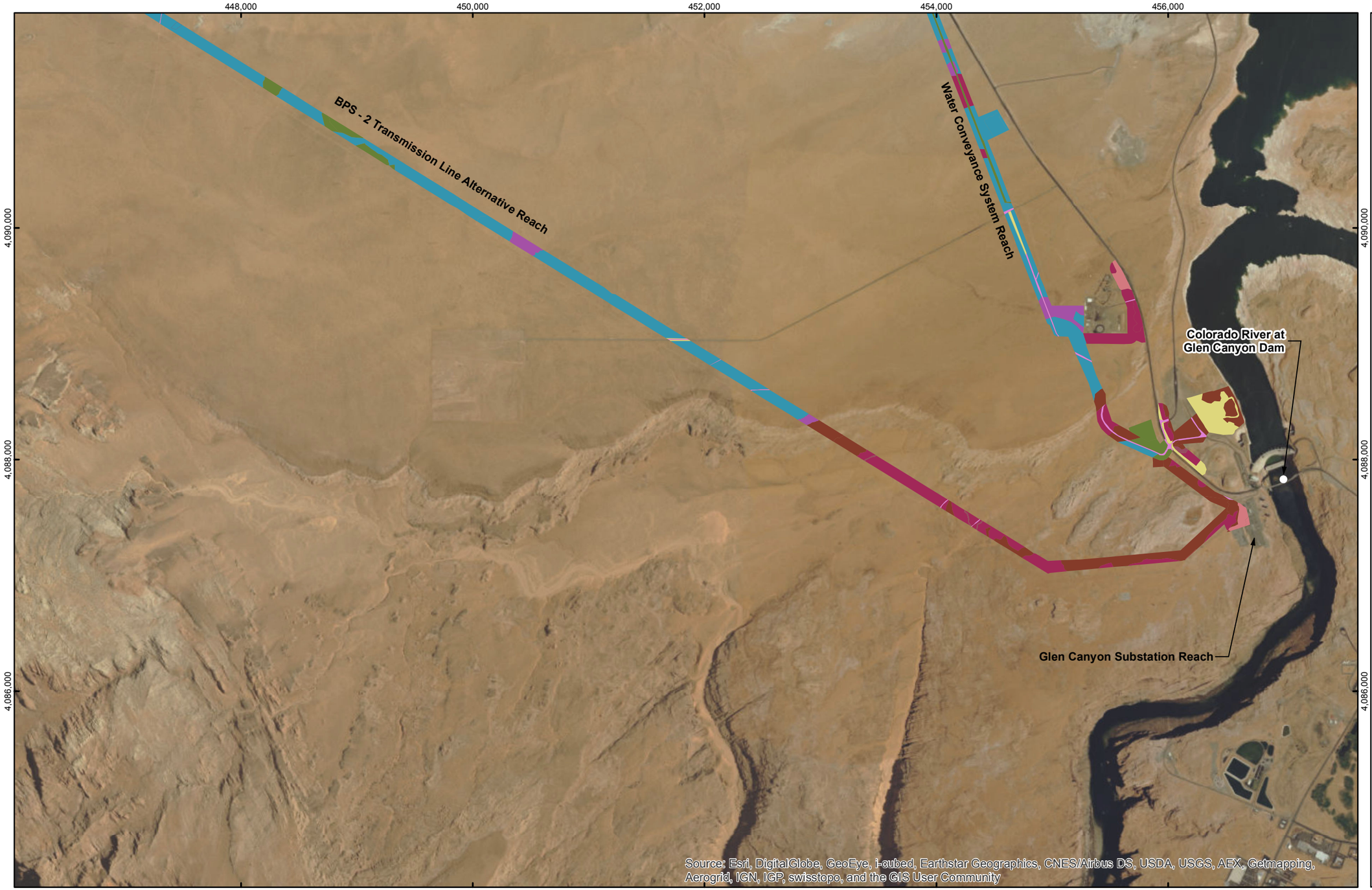
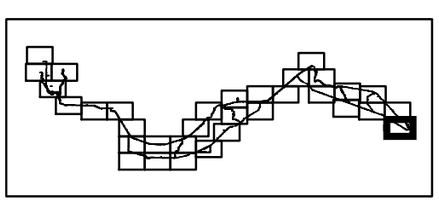
Appendix D
Lake Powell Pipeline Ecological Systems Maps



Lake Powell Pipeline Ecological Systems Key

Ecological System

- Colorado Plateau Mixed Desert Scrub
- Colorado Plateau Shrub-Steppe
- Colorado Plateau Wash
- Colorado Plateau Active and Stabilized Dune
- Colorado Plateau Mixed Bedrock Canyon and Tableland
- Colorado Plateau Blackbrush-Mormon-tea Shrubland
- Ruderal Vegetation
- Developed - Road
- Developed land



Feet

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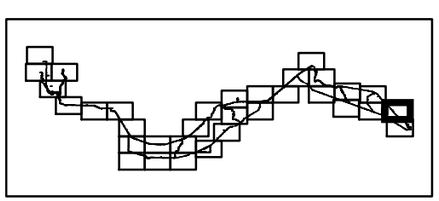
Map Projection: NAD1983, UTM Zone 12 North
Sources: Arizona/Utah Transportation Information System GIS Coverage (2007)
ESRI, v92, Aerial Imagery

Lake Powell Pipeline Ecological Systems

Key

Ecological System

- Colorado Plateau Mixed Desert Scrub
- Colorado Plateau Lower Montane Riparian Woodland and Shrubland
- Colorado Plateau Shrub-Steppe
- Colorado Plateau Wash
- Colorado Plateau Active and Stabilized Dune
- Colorado Plateau Mixed Bedrock Canyon and Tableland
- Colorado Plateau Blackbrush-Mormon-tea Shrubland
- Ruderal Vegetation
- Developed - Road
- Developed land
- Invasive Upland Vegetation



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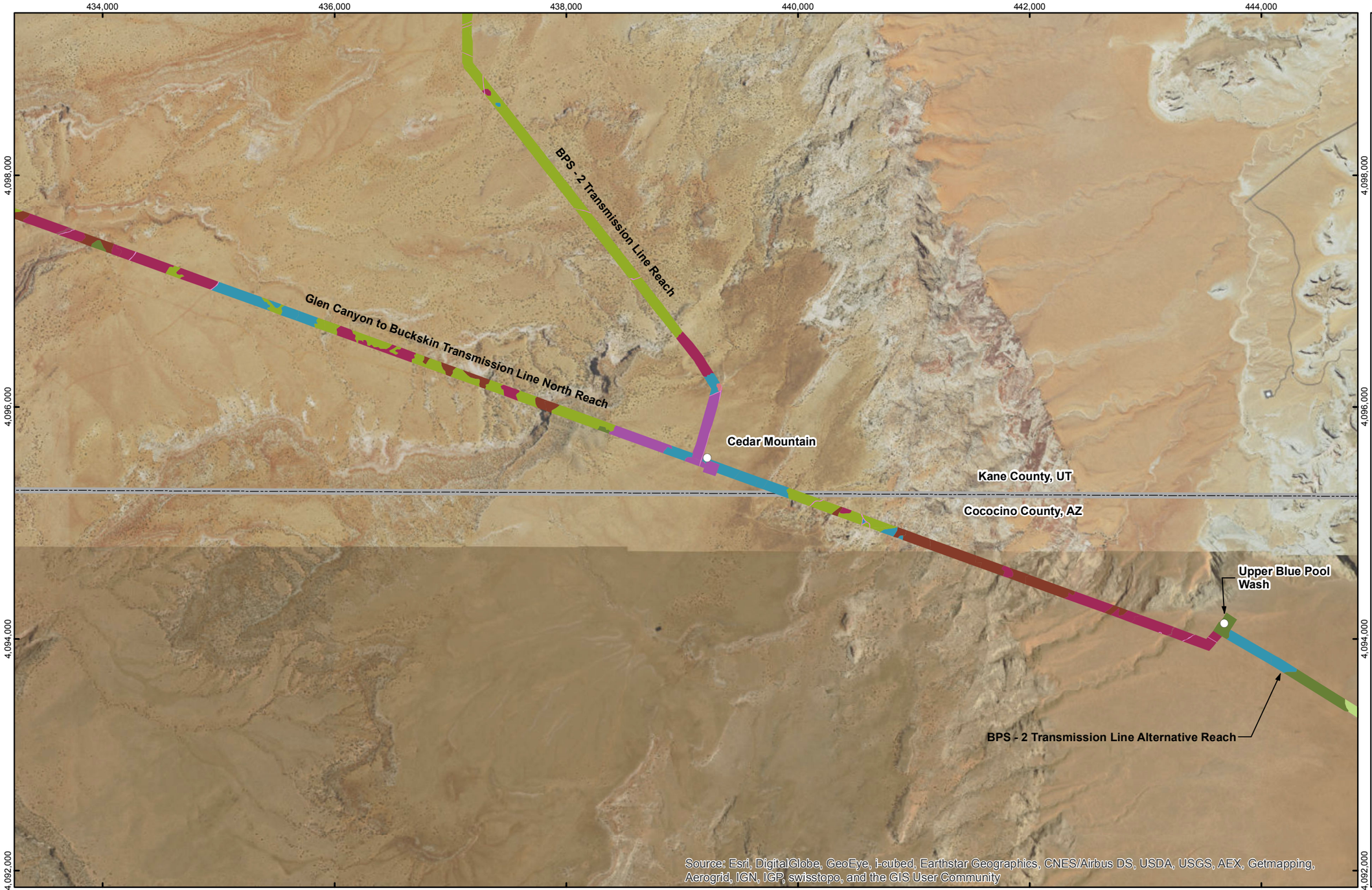
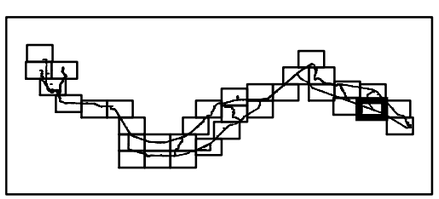
Map Projection: NAD1983, UTM Zone 12 North
Sources: Arizona/Utah Transportation Information System GIS Coverage (2007)
ESRI, v92, Aerial Imagery



Lake Powell Pipeline Ecological Systems Key

Ecological System

- Colorado Plateau Mixed Desert Scrub
- Colorado Plateau Shrub-Steppe
- Colorado Plateau Wash
- Colorado Plateau Pinyon-Juniper Woodland
- Colorado Plateau Active and Stabilized Dune
- Colorado Plateau Mixed Bedrock Canyon and Tableland
- Colorado Plateau Blackbrush-Mormon-tea Shrubland
- Developed - Road
- Developed land
- Invasive Upland Vegetation



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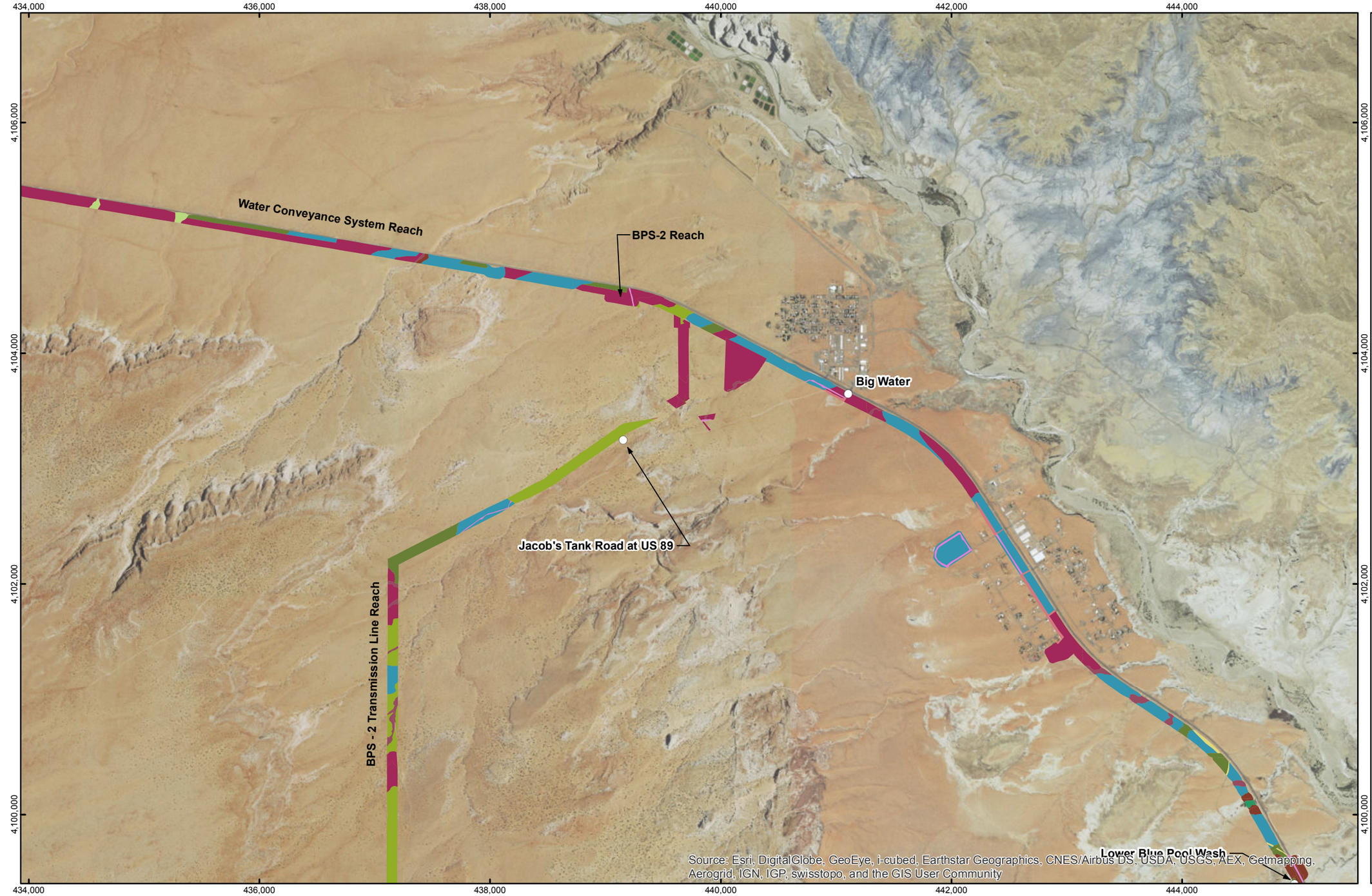
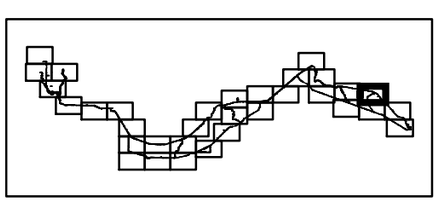
Map Projection: NAD1983, UTM Zone 12 North
Sources: Arizona/Utah Transportation Information System GIS Coverage (2007)
ESRI, v92, Aerial Imagery



Lake Powell Pipeline Ecological Systems Key

Ecological System

- Colorado Plateau Mixed Desert Scrub
- Colorado Plateau Lower Montane Riparian Woodland and Shrubland
- Colorado Plateau Wash
- Colorado Plateau Pinyon-Juniper Woodland
- Colorado Plateau Active and Stabilized Dune
- Colorado Plateau Mixed Bedrock Canyon and Tableland
- Colorado Plateau Blackbrush-Mormon-tea Shrubland
- Ruderal Vegetation
- Developed - Road
- Developed land
- Invasive Upland Vegetation



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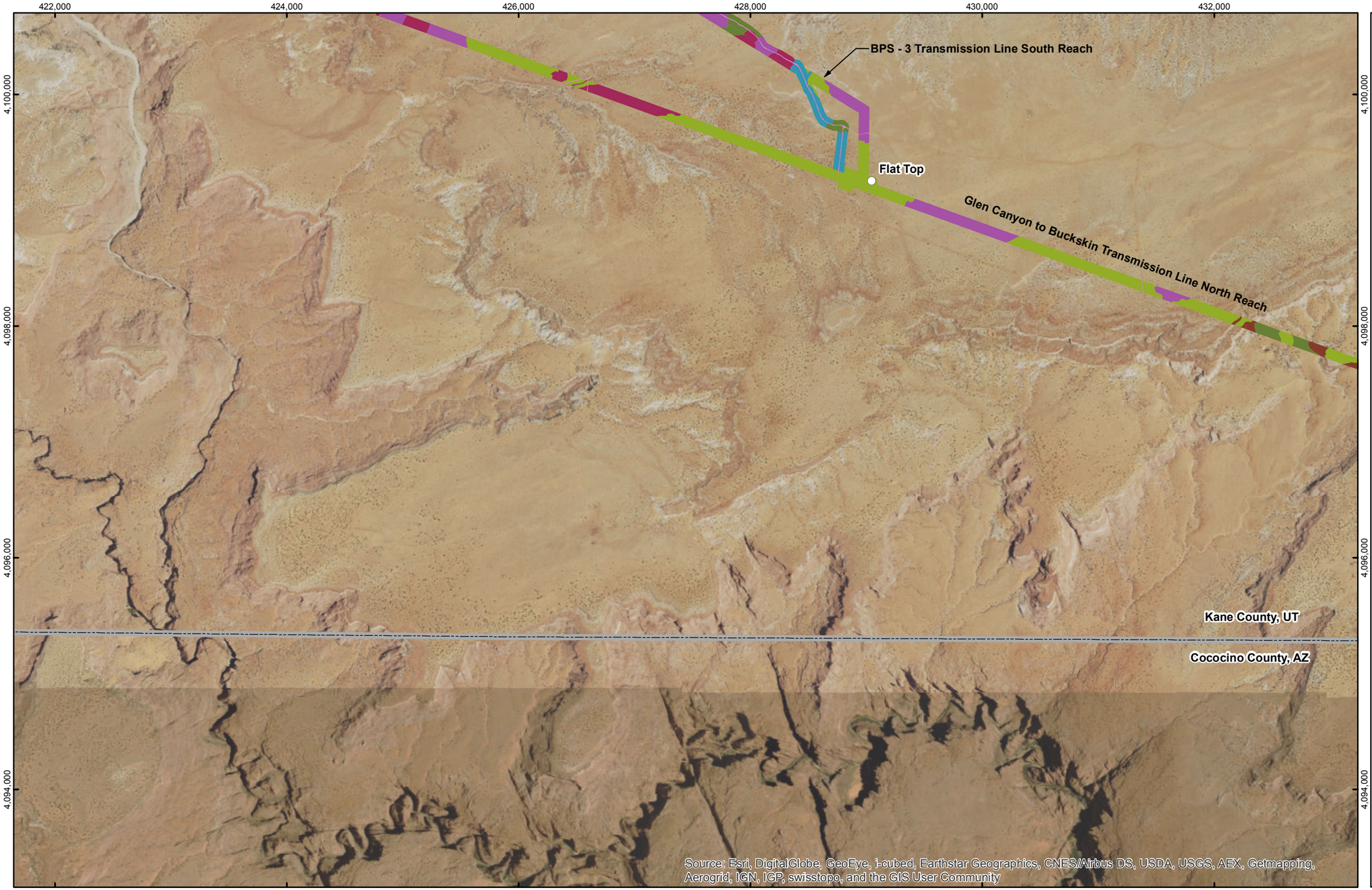
Map Projection: NAD1983, UTM Zone 12 North
Sources: Arizona/Utah Transportation Information System GIS Coverage (2007)
ESRI, v92, Aerial Imagery

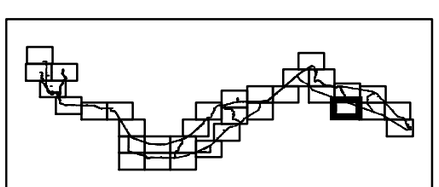


Lake Powell Pipeline Ecological Systems

Key

Ecological System

- Colorado Plateau Mixed Desert Scrub
- Colorado Plateau Shrub-Steppe
- Colorado Plateau Wash
- Colorado Plateau Pinyon-Juniper Woodland
- Colorado Plateau Active and Stabilized Dune
- Colorado Plateau Mixed Bedrock Canyon and Tableland
- Colorado Plateau Blackbrush-Mormon-tea Shrubland
- Developed - Road



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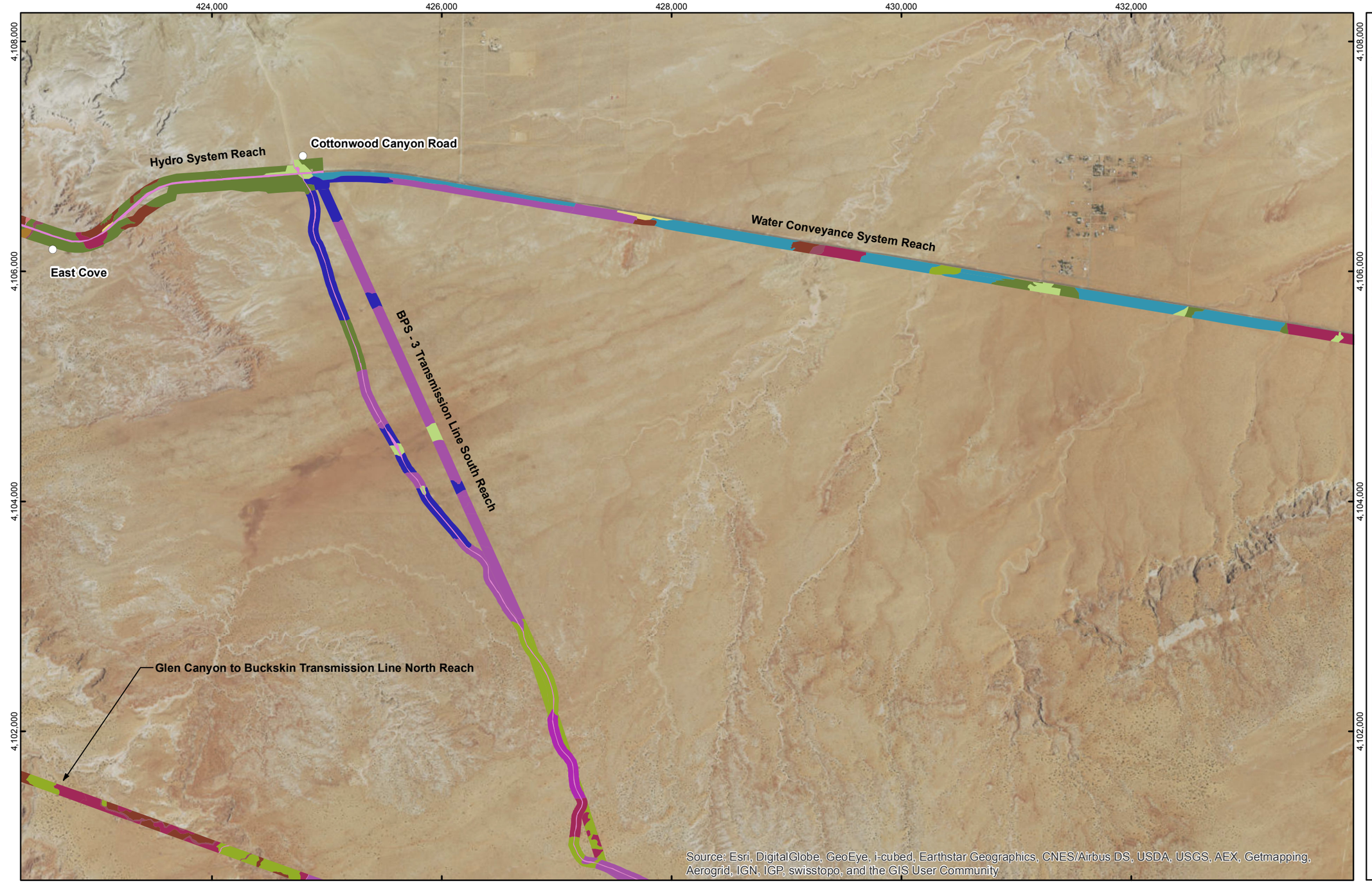
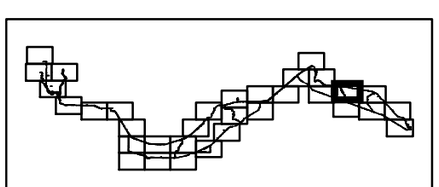
Map Projection: NAD1983, UTM Zone 12 North
Sources: Arizona/Utah Transportation Information System GIS Coverage (2007)
ESRI, v92, Aerial Imagery



Lake Powell Pipeline Ecological Systems Key

Ecological System

- Colorado Plateau Mixed Desert Scrub
- Colorado Plateau Greasewood Flat
- Colorado Plateau Shrub-Steppe
- Colorado Plateau Wash
- Colorado Plateau Grassland
- Colorado Plateau Pinyon-Juniper Woodland
- Colorado Plateau Juniper Savanna
- Colorado Plateau Active and Stabilized Dune
- Colorado Plateau Mixed Bedrock Canyon and Tableland
- Colorado Plateau Blackbrush-Mormon-tea Shrubland
- Ruderal Vegetation
- Developed - Road
- Developed land
- Invasive Upland Vegetation



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Sources: Arizona/Utah Transportation Information System GIS Coverage (2007)
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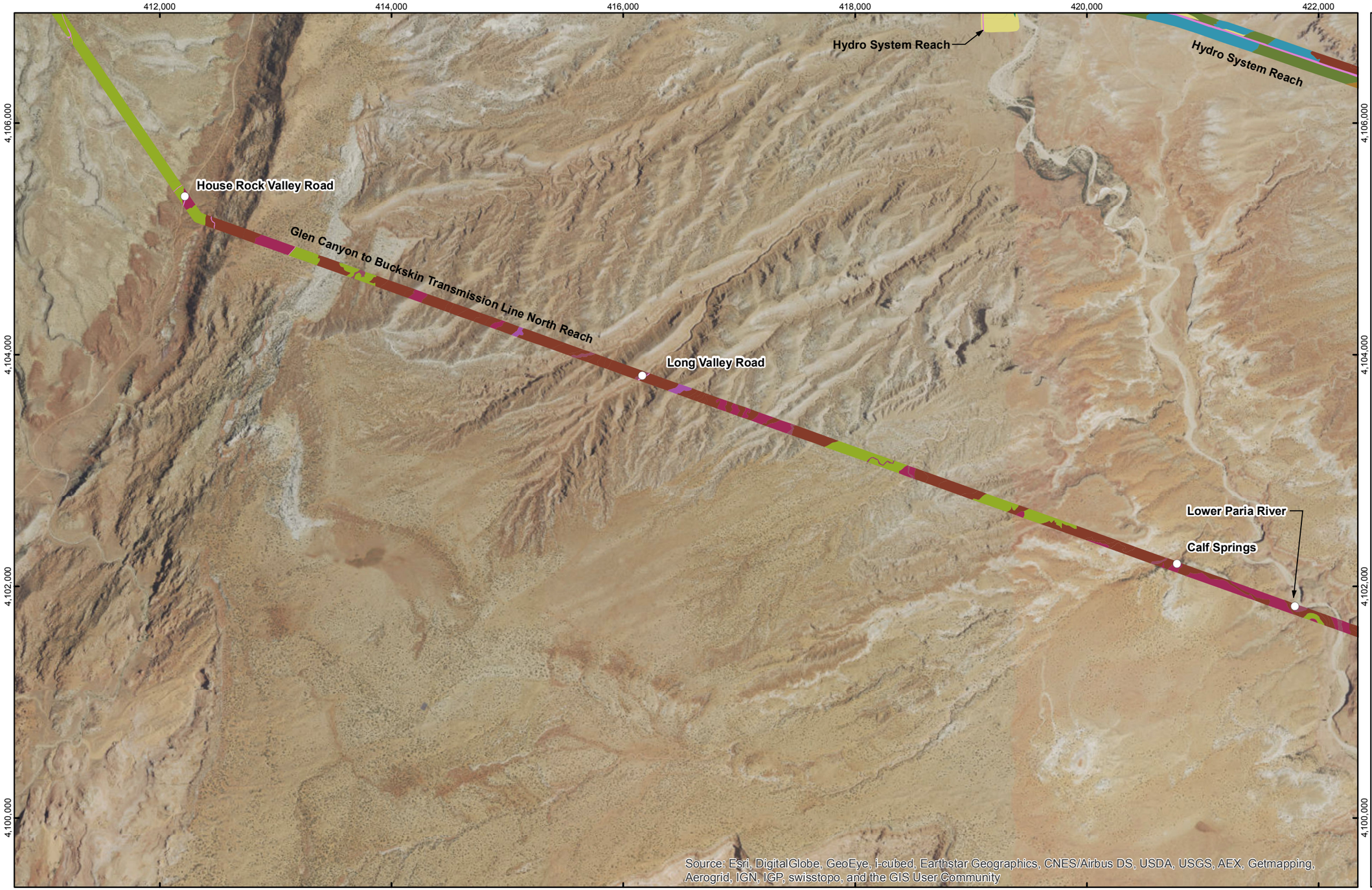
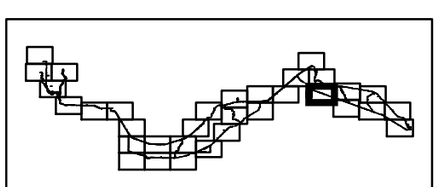


Lake Powell Pipeline Ecological Systems Key

Ecological System

- Colorado Plateau Mixed Desert Scrub
- Colorado Plateau Greasewood Flat
- Colorado Plateau Lower Montane Riparian Woodland and Shrubland
- Colorado Plateau Shrub-Steppe
- Colorado Plateau Wash
- Colorado Plateau Pinyon-Juniper Woodland
- Colorado Plateau Active and Stabilized Dune
- Colorado Plateau Mixed Bedrock Canyon and Tableland
- Colorado Plateau Blackbrush-Mormon-tea Shrubland
- Ruderal Vegetation
- Developed - Road



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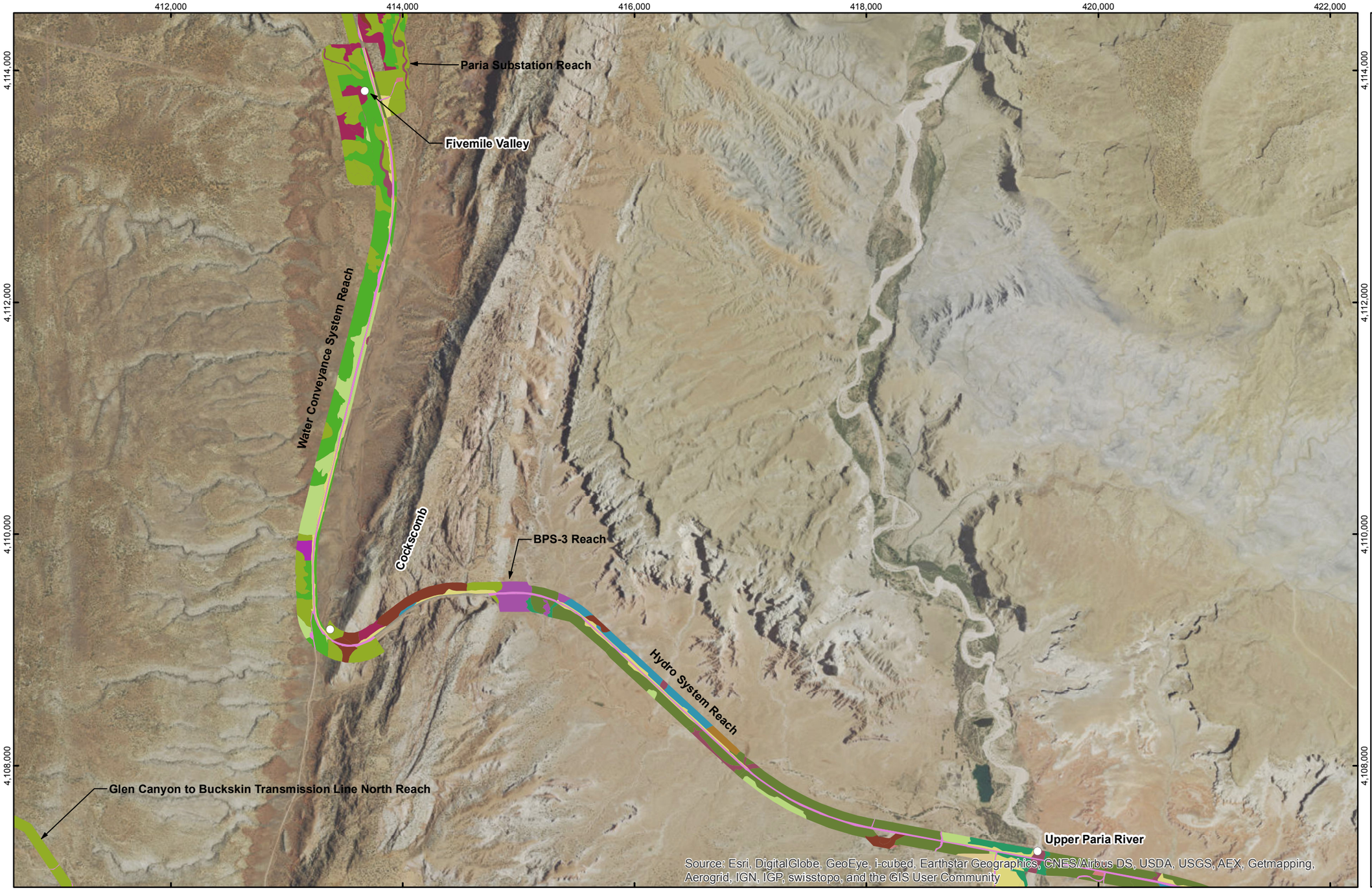
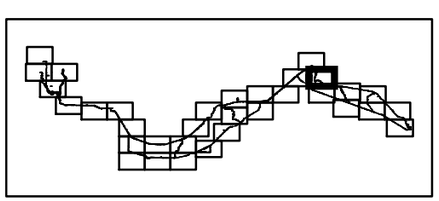
Map Projection: NAD1983, UTM Zone 12 North
Sources: Arizona/Utah Transportation Information System GIS Coverage (2007)
ESRI, v92, Aerial Imagery



Lake Powell Pipeline Ecological Systems Key

Ecological System

- Colorado Plateau Mixed Desert Scrub
- Colorado Plateau Greasewood Flat
- Colorado Plateau Lower Montane Riparian Woodland and Shrubland
- Colorado Plateau Big Sagebrush Shrubland
- Colorado Plateau Shrub-Steppe
- Colorado Plateau Wash
- Colorado Plateau Pinyon-Juniper Woodland
- Colorado Plateau Juniper Savanna
- Colorado Plateau Active and Stabilized Dune
- Colorado Plateau Mixed Bedrock Canyon and Tableland
- Colorado Plateau Blackbrush-Mormon-tea Shrubland
- Ruderal Vegetation
- Agricultural land
- Developed - Road
- Developed land
- Invasive Upland Vegetation



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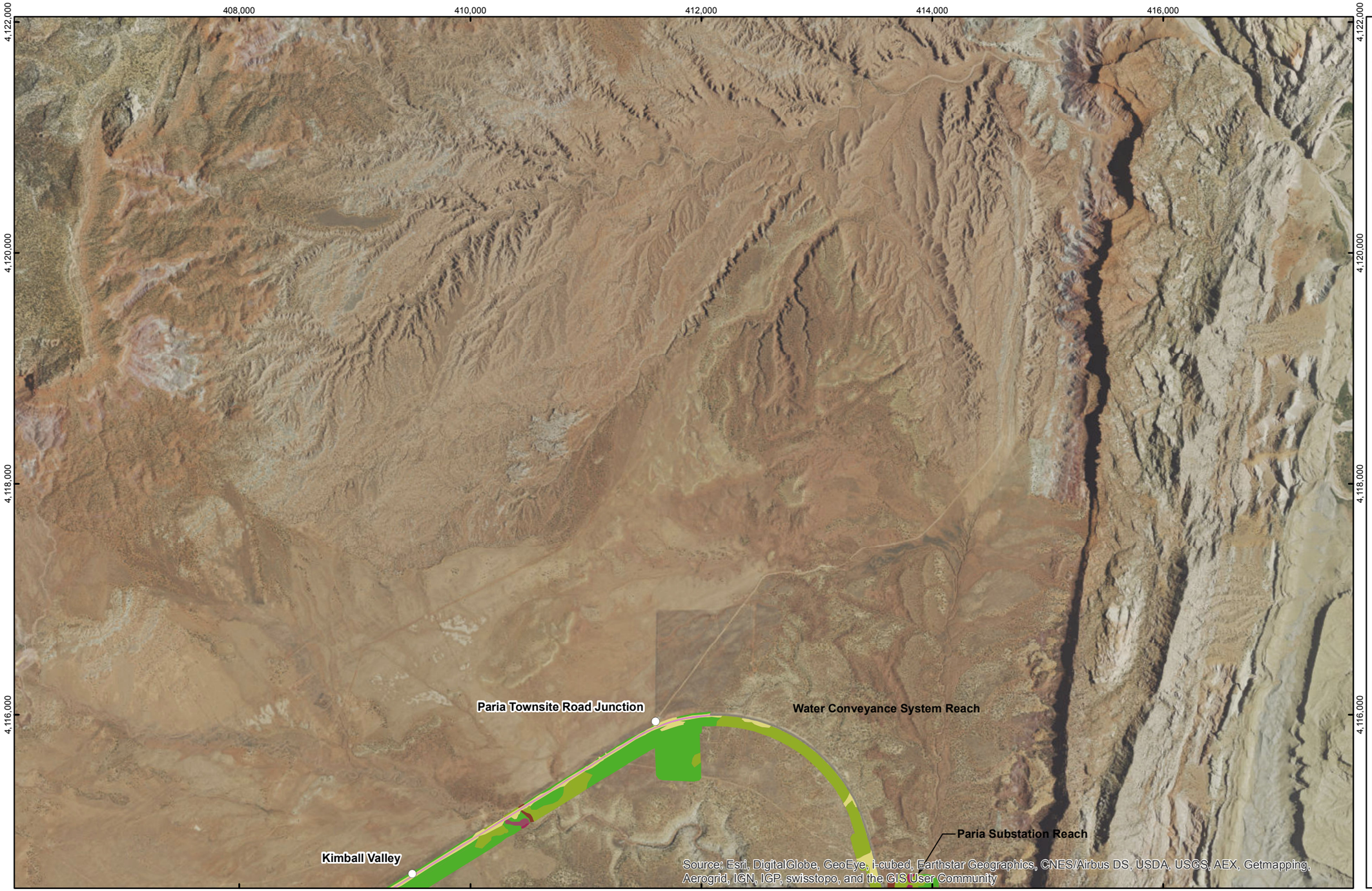
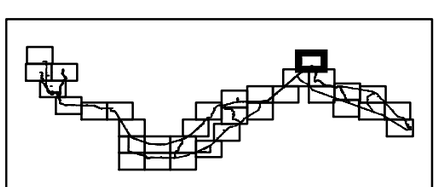


Lake Powell Pipeline Ecological Systems

Key

Ecological System

- Colorado Plateau Big Sagebrush Shrubland
- Colorado Plateau Wash
- Colorado Plateau Pinyon-Juniper Woodland
- Colorado Plateau Active and Stabilized Dune
- Colorado Plateau Mixed Bedrock Canyon and Tableland
- Ruderal Vegetation
- Developed - Road
- Developed land



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Map Projection: NAD1983, UTM Zone 12 North
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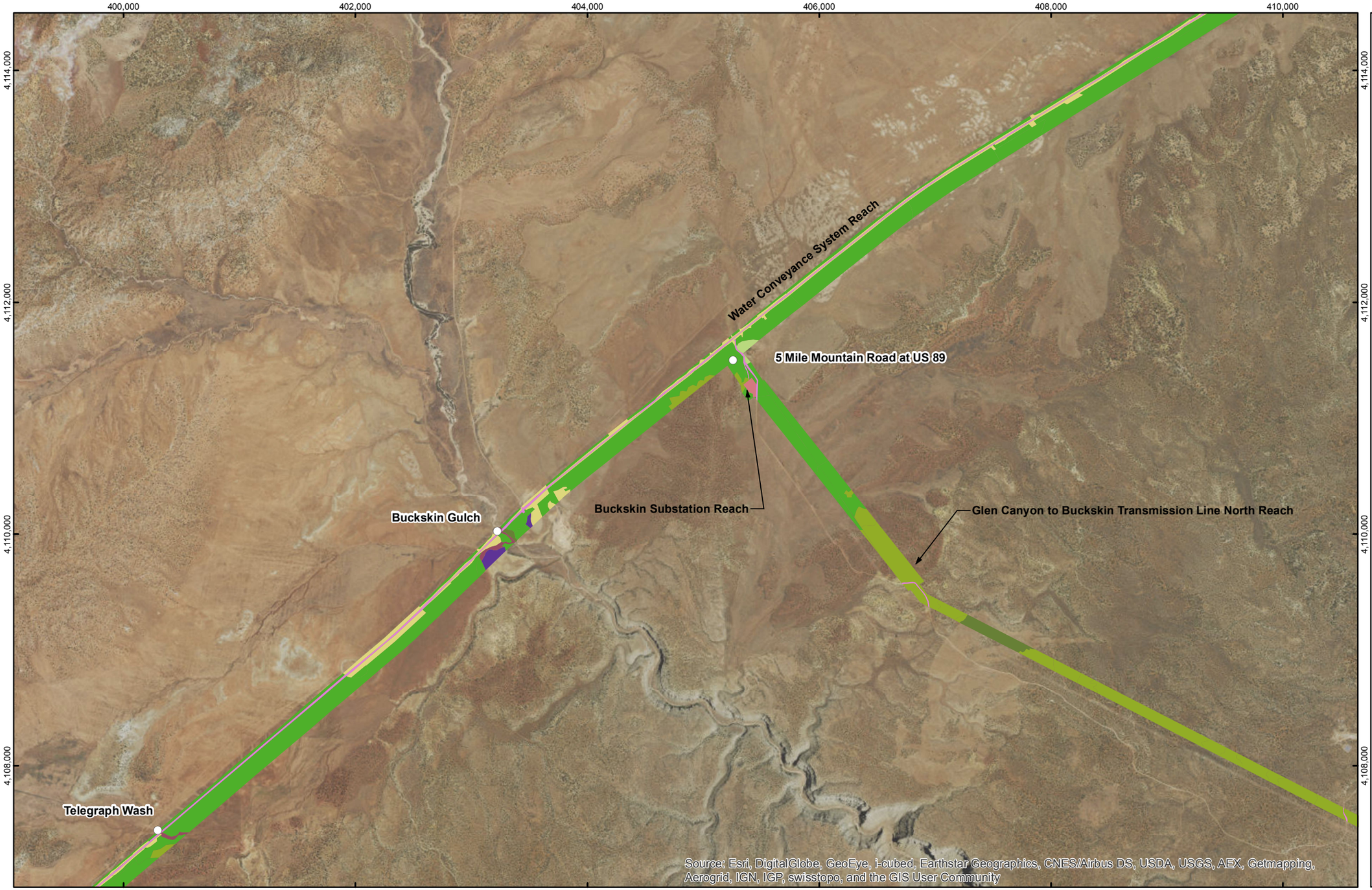
ESRI, v92, Aerial Imagery

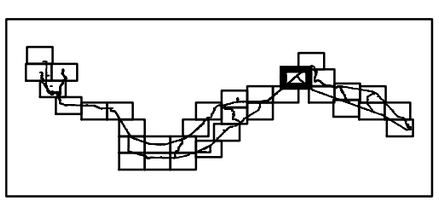


Lake Powell Pipeline Ecological Systems

Key

Ecological System

- Colorado Plateau Mixed Desert Scrub
- Colorado Plateau Big Sagebrush Shrubland
- Colorado Plateau Mixed Low Sagebrush Shrubland
- Colorado Plateau Wash
- Colorado Plateau Pinyon-Juniper Woodland
- Ruderal Vegetation
- Developed - Road
- Developed land
- Invasive Upland Vegetation



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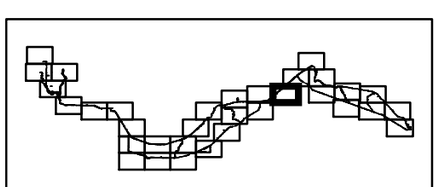
Map Projection: NAD1983, UTM Zone 12 North
Sources: Arizona/Utah Transportation Information System GIS Coverage (2007)
ESRI, v92, Aerial Imagery

Lake Powell Pipeline Ecological Systems Key

Ecological System

- Colorado Plateau Big Sagebrush Shrubland
- Colorado Plateau Pinyon-Juniper Woodland
- Ruderal Vegetation
- Developed - Road
- Quarry
- Invasive Upland Vegetation



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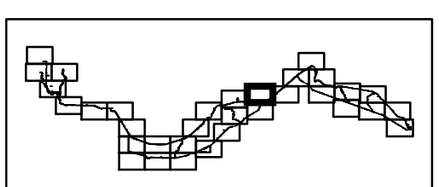
Map Projection: NAD1983, UTM Zone 12 North
Sources: Arizona/Utah Transportation Information System GIS Coverage (2007)
ESRI, v92, Aerial Imagery

Lake Powell Pipeline Ecological Systems

Key

Ecological System

- Colorado Plateau Mixed Desert Scrub
- Colorado Plateau Lower Montane Riparian Woodland and Shrubland
- Colorado Plateau Big Sagebrush Shrubland
- Colorado Plateau Gypsum Badlands
- Colorado Plateau Wash
- Colorado Plateau Grassland
- Colorado Plateau Pinyon-Juniper Woodland
- Ruderal Vegetation
- Developed - Road
- Invasive Upland Vegetation



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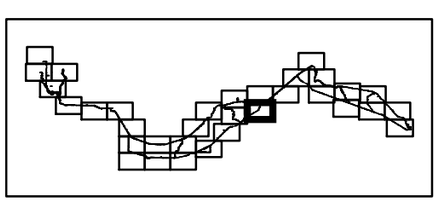
Lake Powell Pipeline Ecological Systems Key

Ecological System

- Colorado Plateau Mixed Desert Scrub
- Colorado Plateau Big Sagebrush Shrubland
- Colorado Plateau Shrub-Steppe
- Colorado Plateau Gypsum Badlands
- Colorado Plateau Wash
- Colorado Plateau Grassland
- Colorado Plateau Pinyon-Juniper Woodland
- Developed - Road
- Invasive Upland Vegetation



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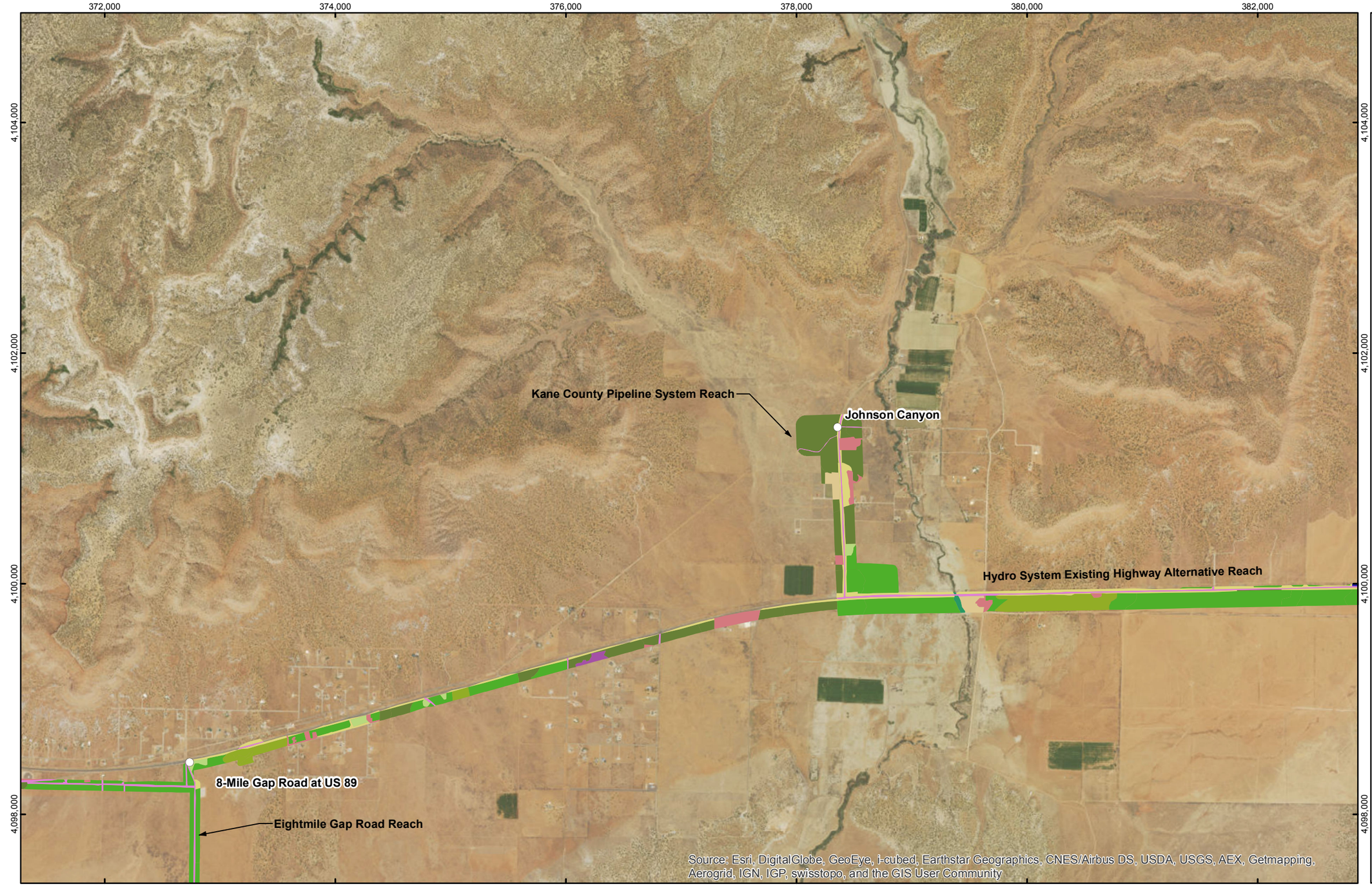
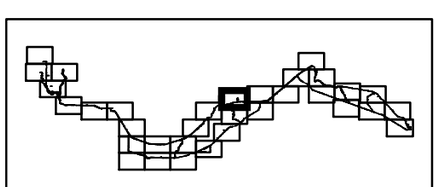


Lake Powell Pipeline Ecological Systems Key

Ecological System

- Colorado Plateau Mixed Desert Scrub
- Colorado Plateau Lower Montane Riparian Woodland and Shrubland
- Colorado Plateau Big Sagebrush Shrubland
- Colorado Plateau Shrub-Steppe
- Colorado Plateau Grassland
- Colorado Plateau Pinyon-Juniper Woodland
- Ruderal Vegetation
- Agricultural land
- Developed - Road
- Developed land
- Invasive Upland Vegetation



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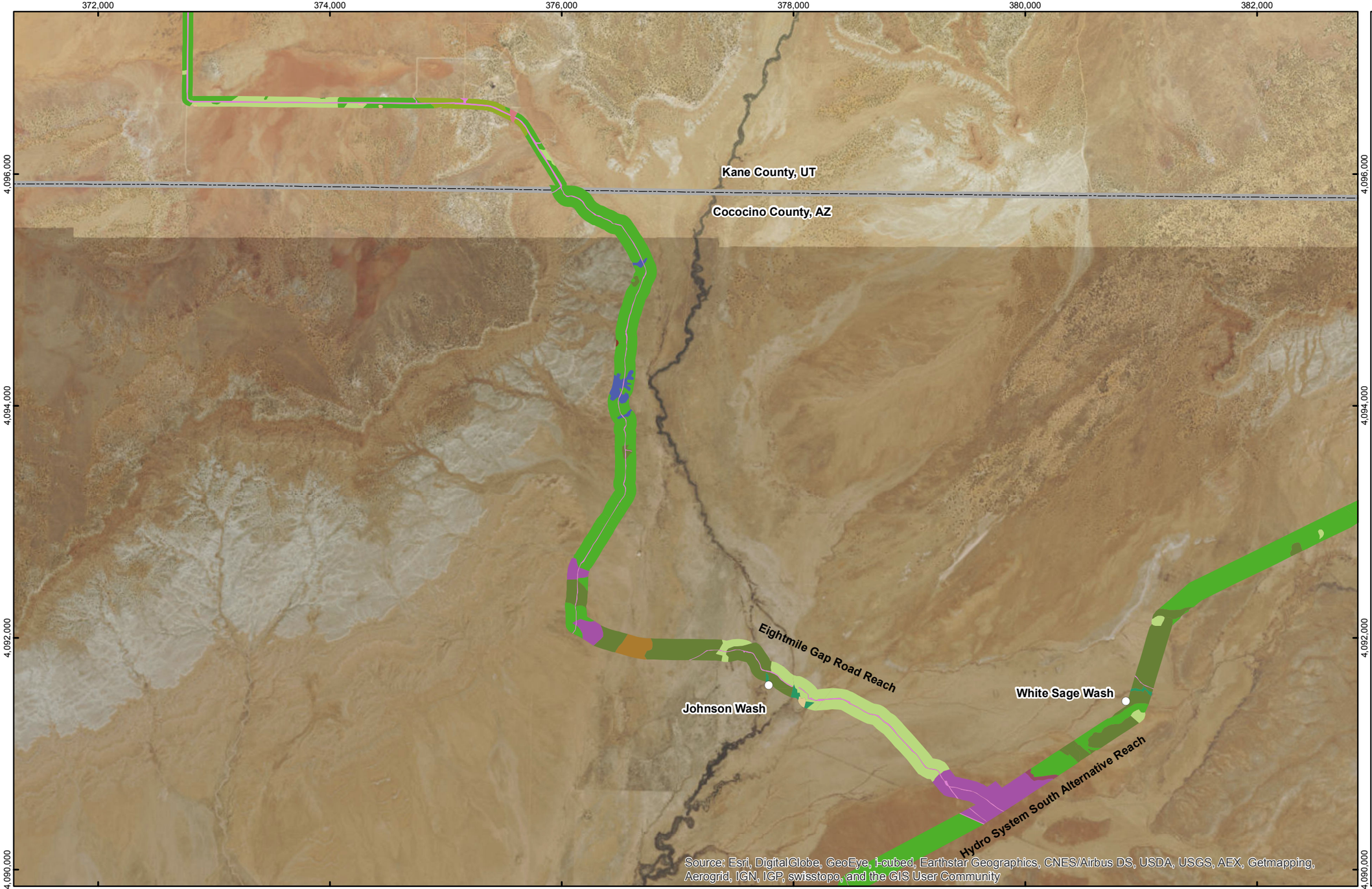
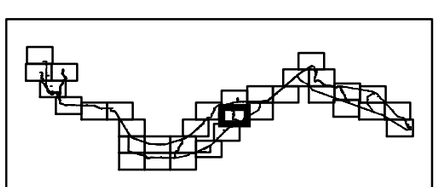
ESRI, v92, Aerial Imagery



Lake Powell Pipeline Ecological Systems Key

Ecological System

- Colorado Plateau Mixed Desert Scrub
- Colorado Plateau Greasewood Flat
- Colorado Plateau Lower Montane Riparian Woodland and Shrubland
- Colorado Plateau Big Sagebrush Shrubland
- Colorado Plateau Shrub-Steppe
- Colorado Plateau Gypsum Badlands
- Colorado Plateau Wash
- Colorado Plateau Pinyon-Juniper Woodland
- Colorado Plateau Mixed Bedrock Canyon and Tableland
- Agricultural land
- Developed - Road
- Developed land
- Invasive Upland Vegetation



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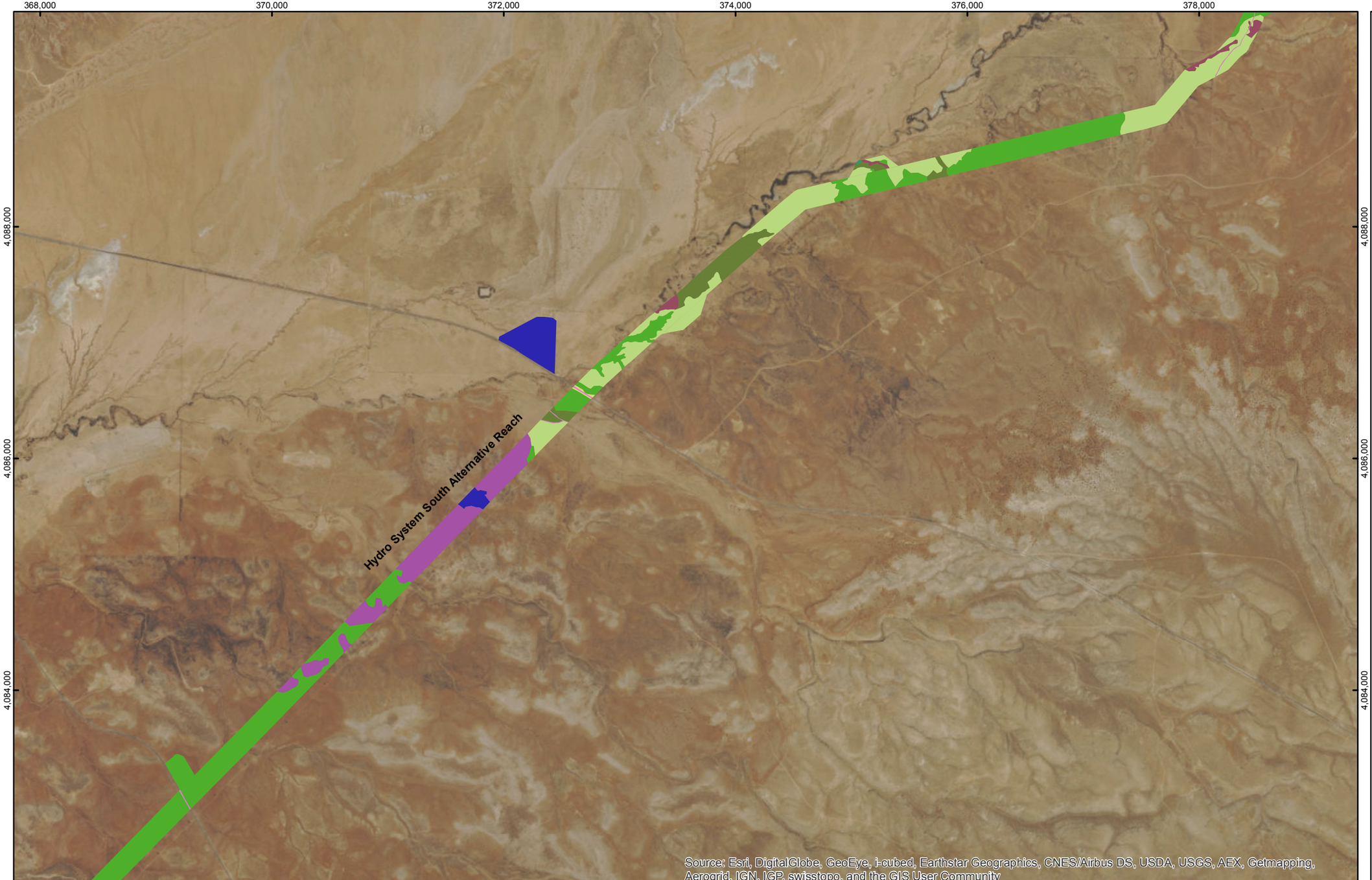
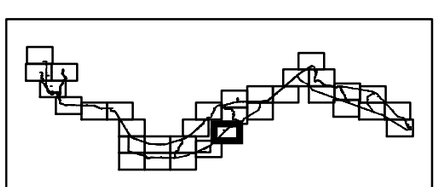


Lake Powell Pipeline Ecological Systems

Key

Ecological System

- Colorado Plateau Mixed Desert Scrub
- Colorado Plateau Lower Montane Riparian Woodland and Shrubland
- Colorado Plateau Big Sagebrush Shrubland
- Colorado Plateau Shrub-Steppe
- Colorado Plateau Wash
- Colorado Plateau Grassland
- Ruderal Vegetation
- Developed - Road
- Invasive Upland Vegetation



Feet

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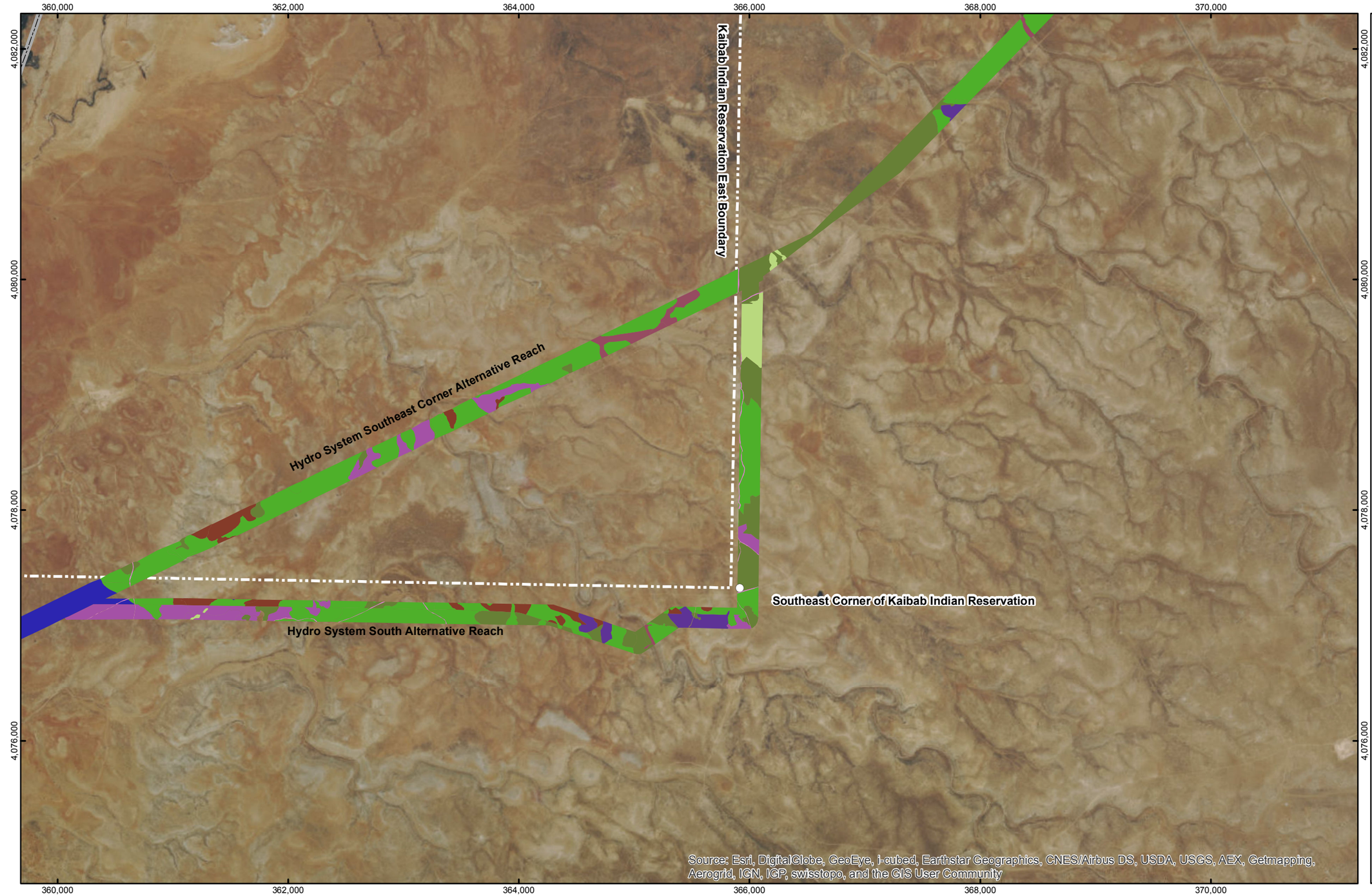
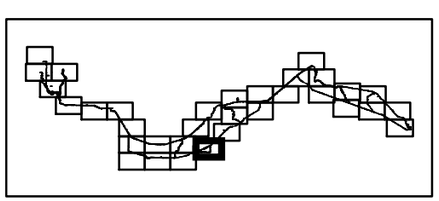
Sources: Arizona/Utah Transportation Information System GIS Coverage (2007)
ESRI, v92, Aerial Imagery



Lake Powell Pipeline Ecological Systems Key

Ecological System

- Colorado Plateau Mixed Desert Scrub
- Colorado Plateau Big Sagebrush Shrubland
- Colorado Plateau Shrub-Steppe
- Colorado Plateau Mixed Low Sagebrush Shrubland
- Colorado Plateau Wash
- Colorado Plateau Grassland
- Colorado Plateau Mixed Bedrock Canyon and Tableland
- Developed - Road
- Invasive Upland Vegetation



Feet

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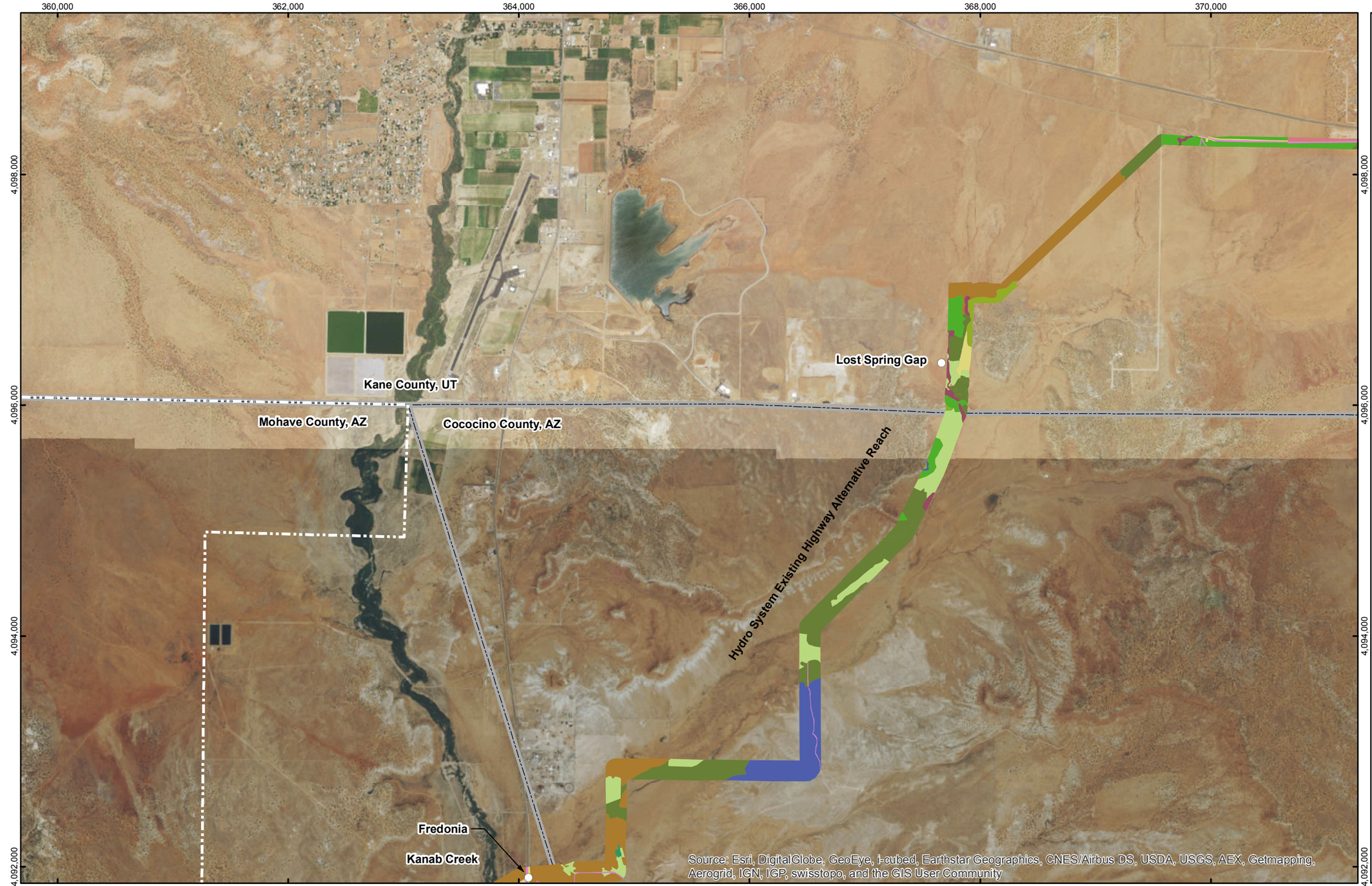
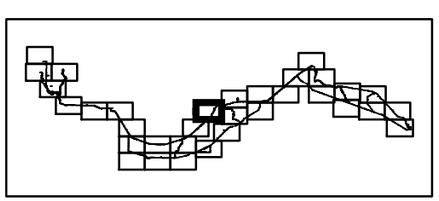


Lake Powell Pipeline Ecological Systems Key

Ecological System

- Colorado Plateau Mixed Desert Scrub
- Colorado Plateau Greasewood Flat
- Colorado Plateau Lower Montane Riparian Woodland and Shrubland
- Colorado Plateau Big Sagebrush Shrubland
- Colorado Plateau Gypsum Badlands
- Colorado Plateau Wash
- Colorado Plateau Pinyon-Juniper Woodland
- Ruderal Vegetation
- Agricultural land
- Developed - Road
- Developed land
- Invasive Upland Vegetation



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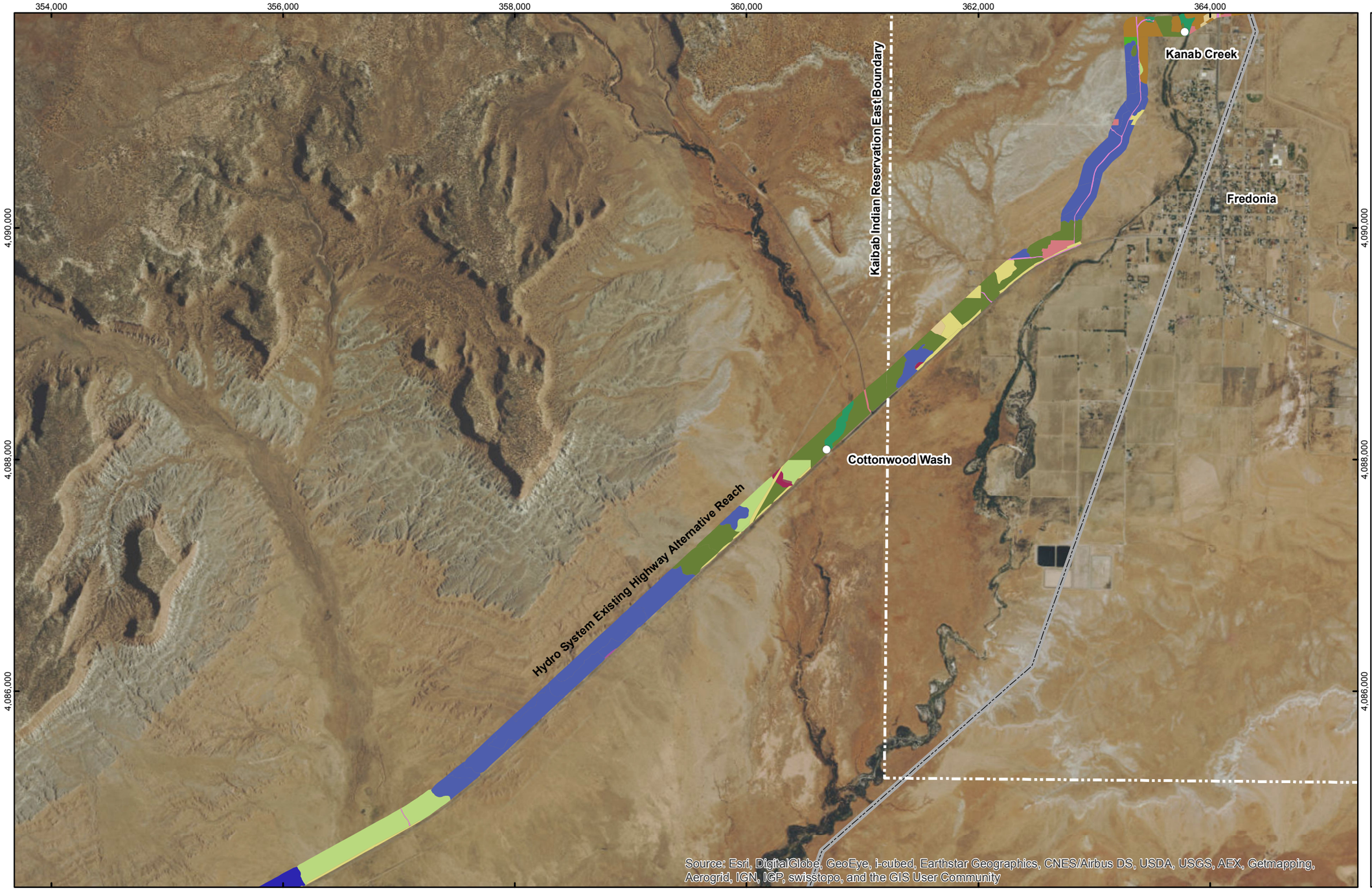
Map Projection: NAD1983, UTM Zone 12 North
Sources: Arizona/Utah Transportation Information System GIS Coverage (2007)
ESRI, v92, Aerial Imagery



Lake Powell Pipeline Ecological Systems

Key

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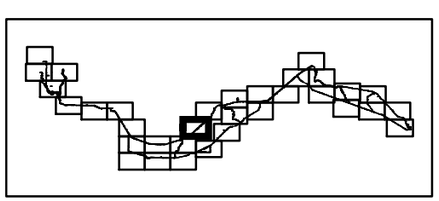
- Colorado Plateau Big Sagebrush Shrubland
- Colorado Plateau Shrub-Steppe
- Colorado Plateau Gypsum Badlands
- Colorado Plateau Wash
- Colorado Plateau Grassland
- Colorado Plateau Active and Stabilized Dune
- Ruderal Vegetation
- Agricultural land
- Developed - Road
- Developed land
- Invasive Upland Vegetation



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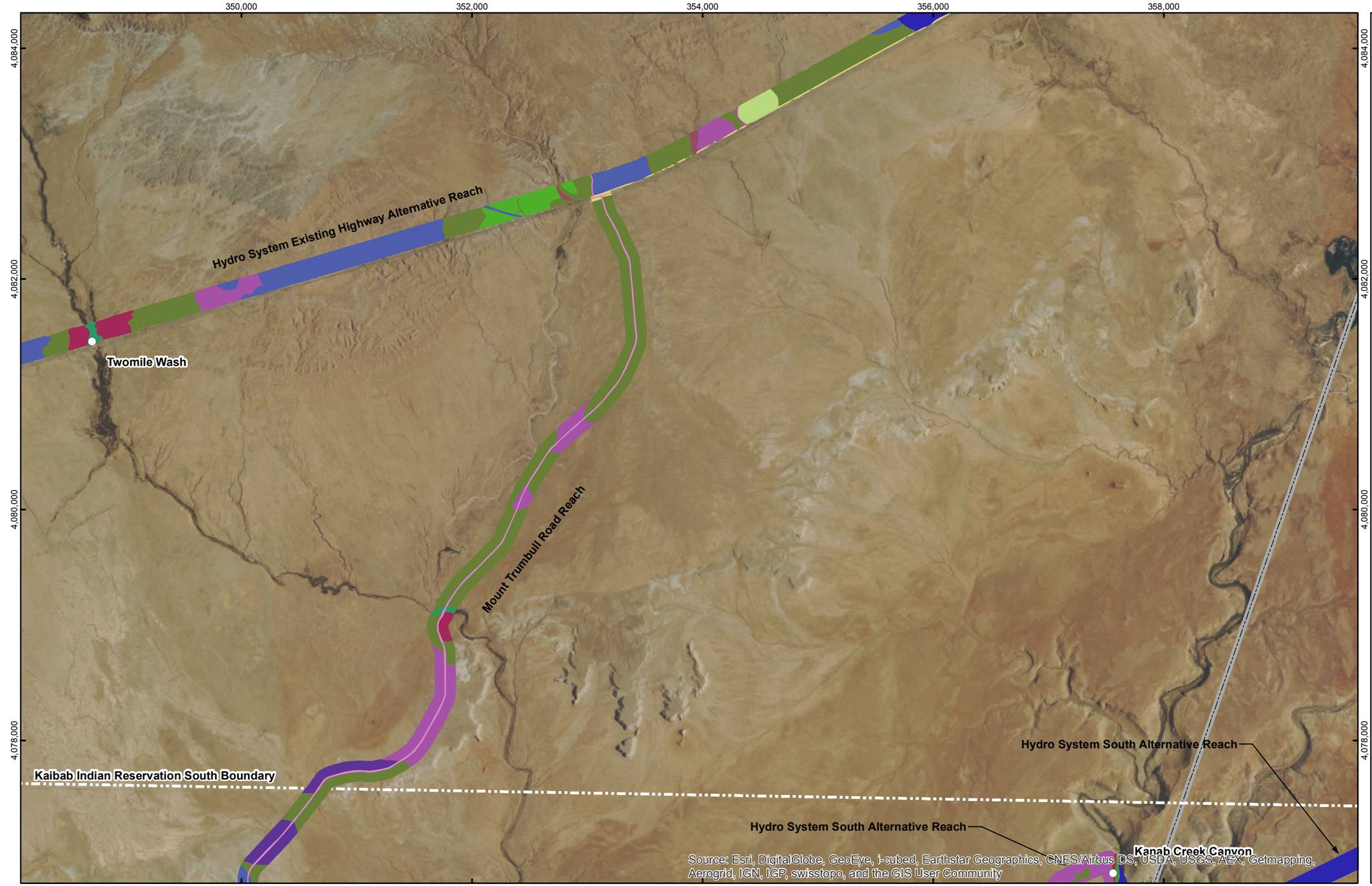
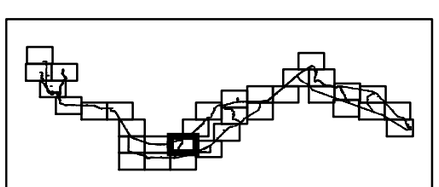
Map Projection: NAD1983, UTM Zone 12 North
Sources: Arizona/Utah Transportation Information System GIS Coverage (2007)
ESRI, v92, Aerial Imagery



Lake Powell Pipeline Ecological Systems Key

Ecological System

- Colorado Plateau Mixed Desert Scrub
- Colorado Plateau Lower Montane Riparian Woodland and Shrubland
- Colorado Plateau Big Sagebrush Shrubland
- Colorado Plateau Shrub-Steppe
- Colorado Plateau Mixed Low Sagebrush Shrubland
- Colorado Plateau Gypsum Badlands
- Colorado Plateau Wash
- Colorado Plateau Grassland
- Colorado Plateau Active and Stabilized Dune
- Colorado Plateau Mixed Bedrock Canyon and Tableland
- Ruderal Vegetation
- Developed - Road
- Invasive Upland Vegetation



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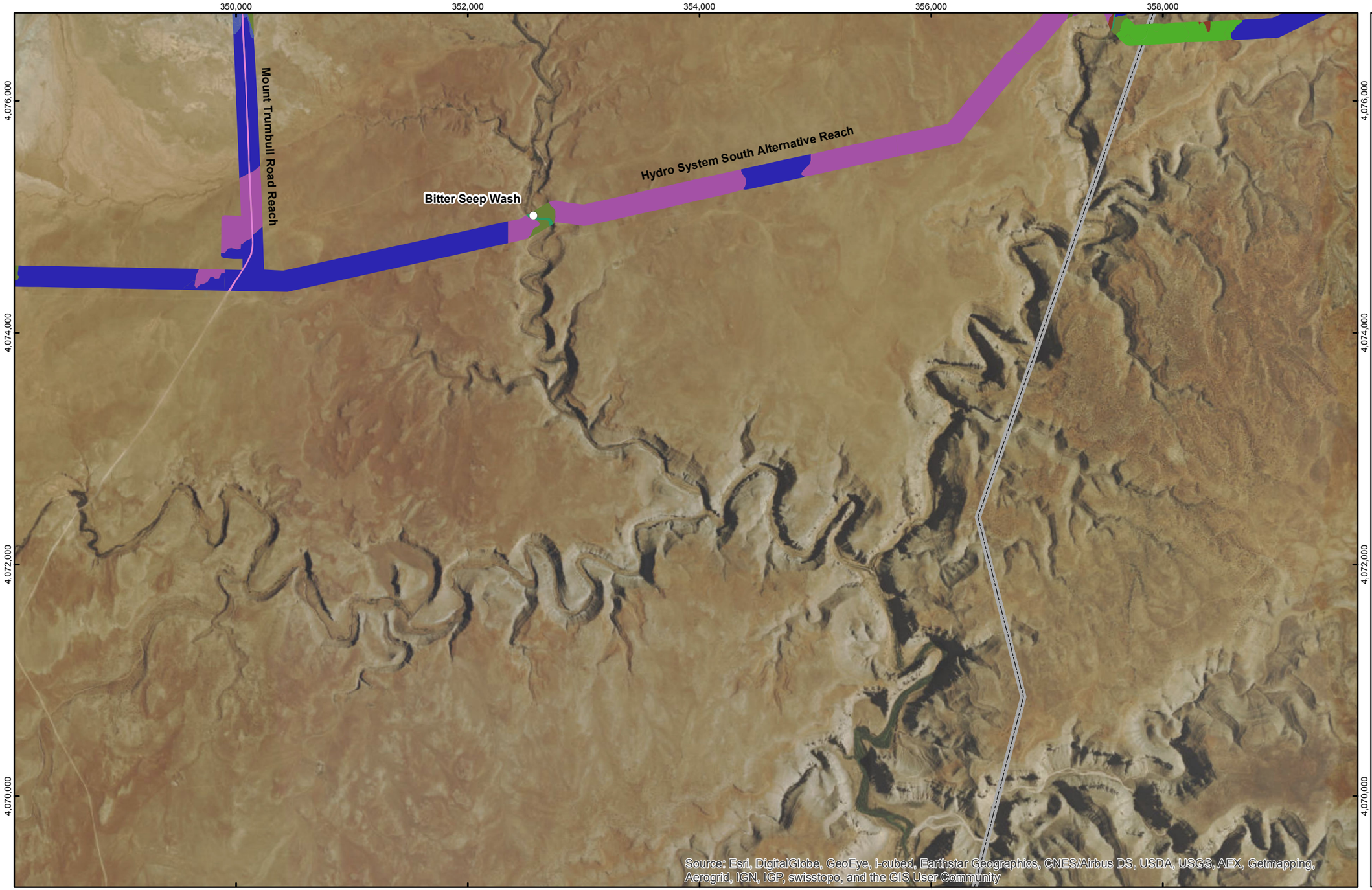
Sources: Arizona/Utah Transportation Information System GIS Coverage (2007)
ESRI, v92, Aerial Imagery

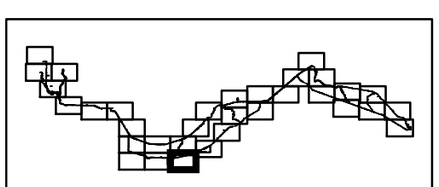


Lake Powell Pipeline Ecological Systems

Key

Ecological System

- Colorado Plateau Mixed Desert Scrub
- Colorado Plateau Lower Montane Riparian Woodland and Shrubland
- Colorado Plateau Big Sagebrush Shrubland
- Colorado Plateau Shrub-Steppe
- Colorado Plateau Gypsum Badlands
- Colorado Plateau Grassland
- Colorado Plateau Mixed Bedrock Canyon and Tableland
- Developed - Road



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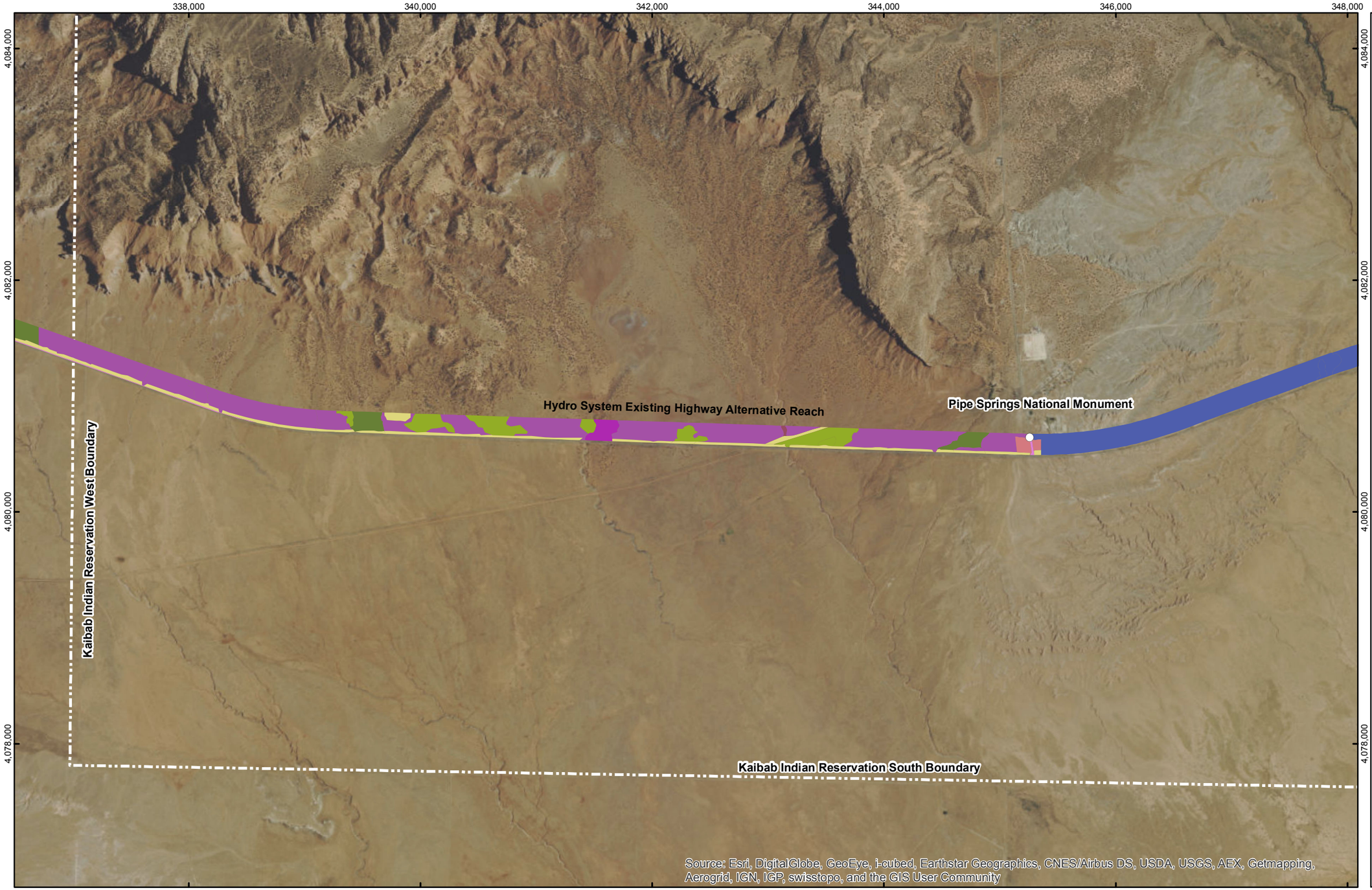
Sources: Arizona/Utah Transportation Information System GIS Coverage (2007)
ESRI, v92, Aerial Imagery

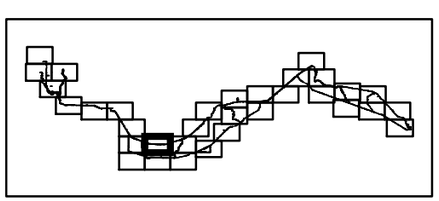


Lake Powell Pipeline Ecological Systems

Key

Ecological System

- Colorado Plateau Mixed Desert Scrub
- Colorado Plateau Shrub-Steppe
- Colorado Plateau Gypsum Badlands
- Colorado Plateau Wash
- Colorado Plateau Pinyon-Juniper Woodland
- Colorado Plateau Juniper Savanna
- Ruderal Vegetation
- Developed - Road
- Developed land



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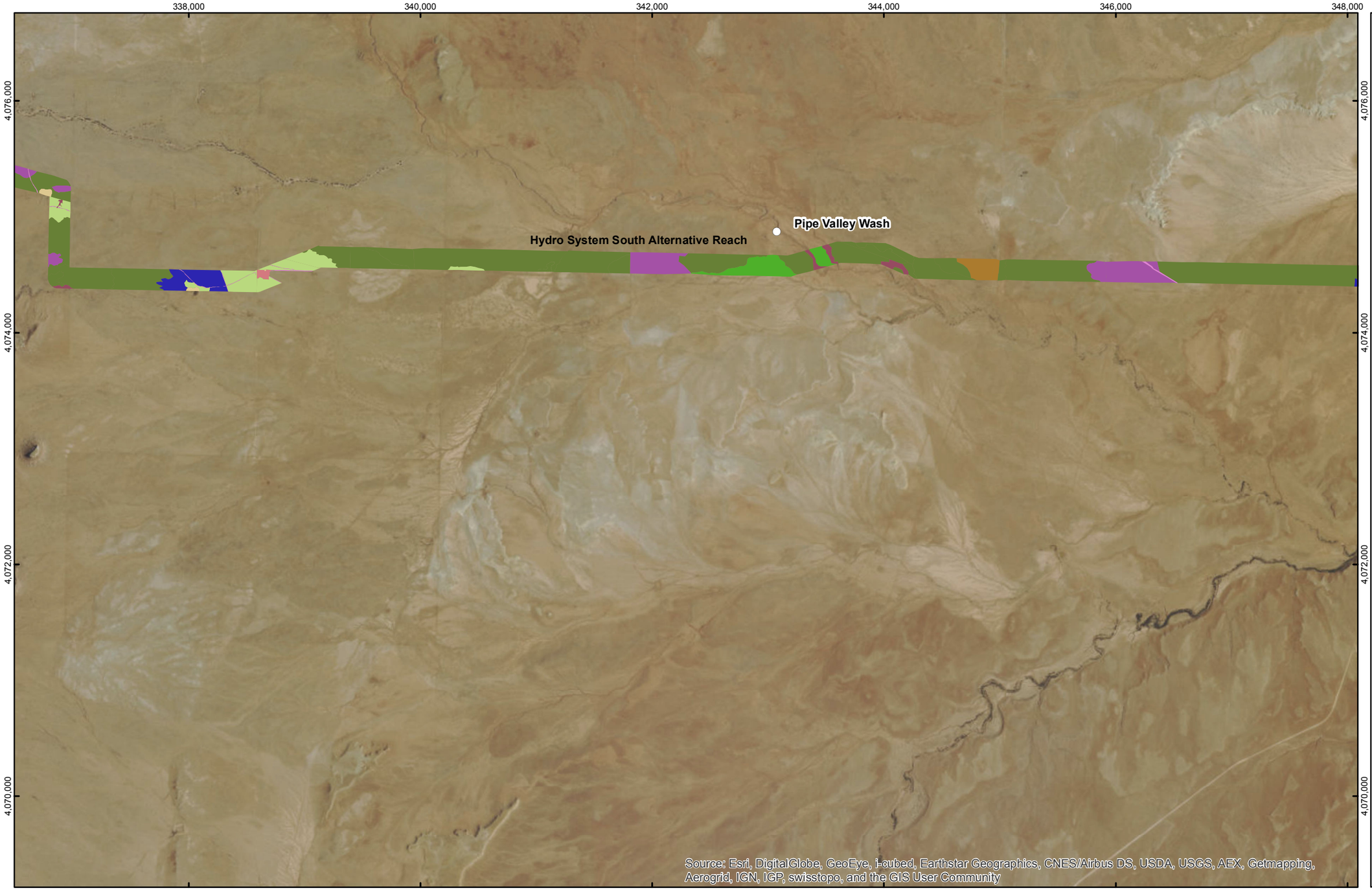
Map Projection: NAD1983, UTM Zone 12 North
Sources: Arizona/Utah Transportation Information System GIS Coverage (2007)
ESRI, v92, Aerial Imagery

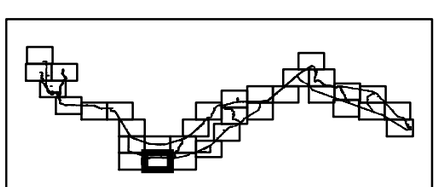


Lake Powell Pipeline Ecological Systems

Key

Ecological System

- Colorado Plateau Mixed Desert Scrub
- Colorado Plateau Greasewood Flat
- Colorado Plateau Big Sagebrush Shrubland
- Colorado Plateau Shrub-Steppe
- Colorado Plateau Wash
- Colorado Plateau Grassland
- Agricultural land
- Developed - Road
- Developed land
- Invasive Upland Vegetation



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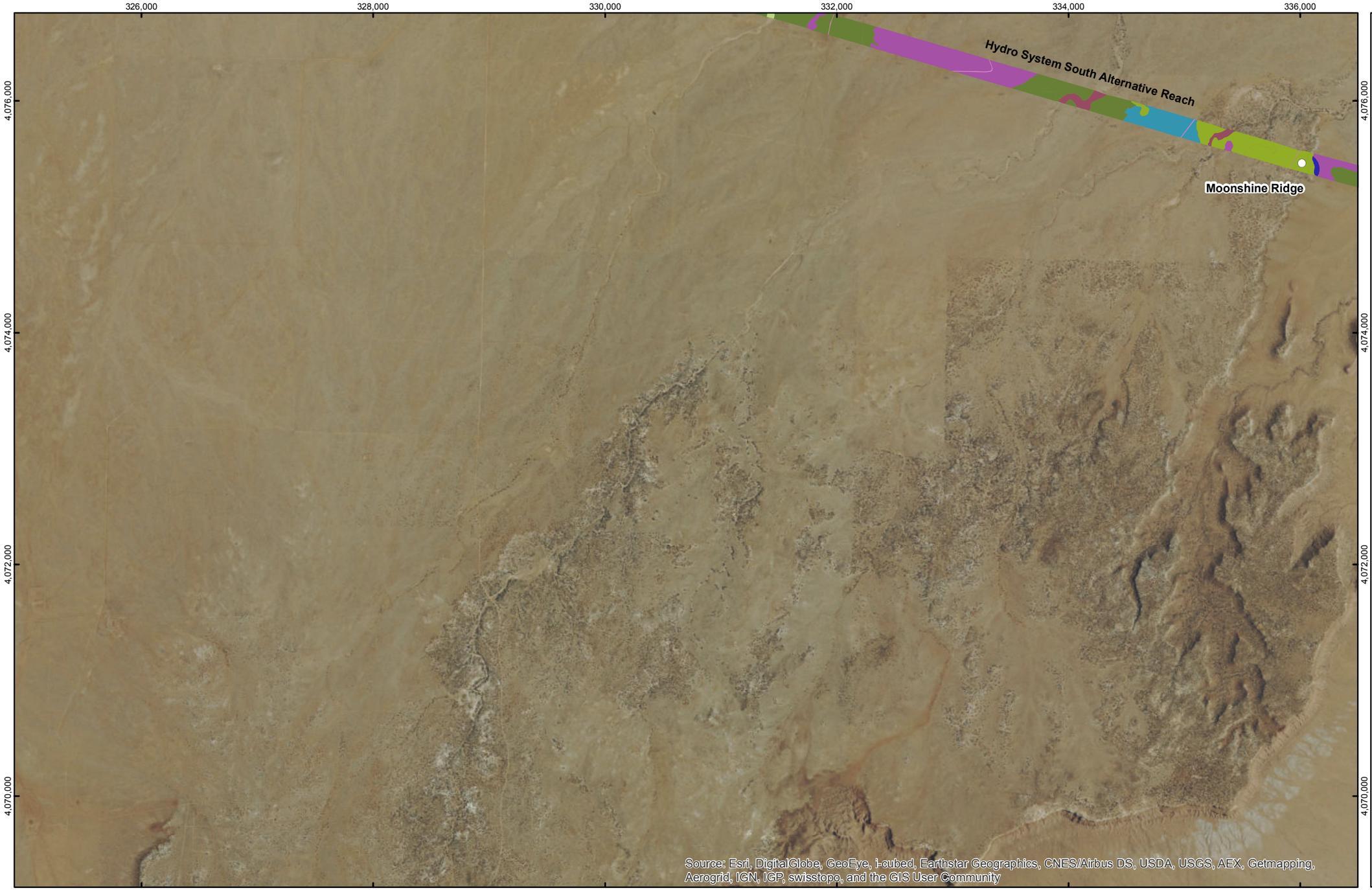
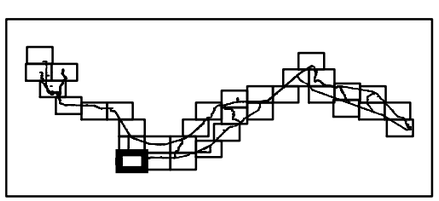
Map Projection: NAD1983, UTM Zone 12 North
Sources: Arizona/Utah Transportation Information System GIS Coverage (2007)
ESRI, v92, Aerial Imagery



Lake Powell Pipeline Ecological Systems Key

Ecological System

- Colorado Plateau Mixed Desert Scrub
- Colorado Plateau Shrub-Steppe
- Colorado Plateau Wash
- Colorado Plateau Grassland
- Colorado Plateau Pinyon-Juniper Woodland
- Colorado Plateau Blackbrush-Mormon-tea Shrubland
- Developed - Road
- Invasive Upland Vegetation



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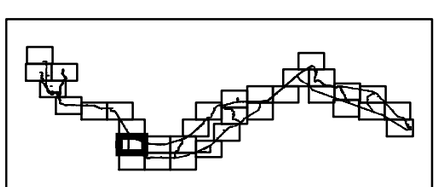
Map Projection: NAD1983, UTM Zone 12 North
Sources: Arizona/Utah Transportation Information System GIS Coverage (2007)
ESRI, v92, Aerial Imagery

Lake Powell Pipeline Ecological Systems

Key

Ecological System

- Colorado Plateau Mixed Desert Scrub
- Colorado Plateau Shrub-Steppe
- Colorado Plateau Wash
- Colorado Plateau Grassland
- Colorado Plateau Pinyon-Juniper Woodland
- Colorado Plateau Blackbrush-Mormon-tea Shrubland
- Ruderal Vegetation
- Agricultural land
- Developed - Road
- Invasive Upland Vegetation



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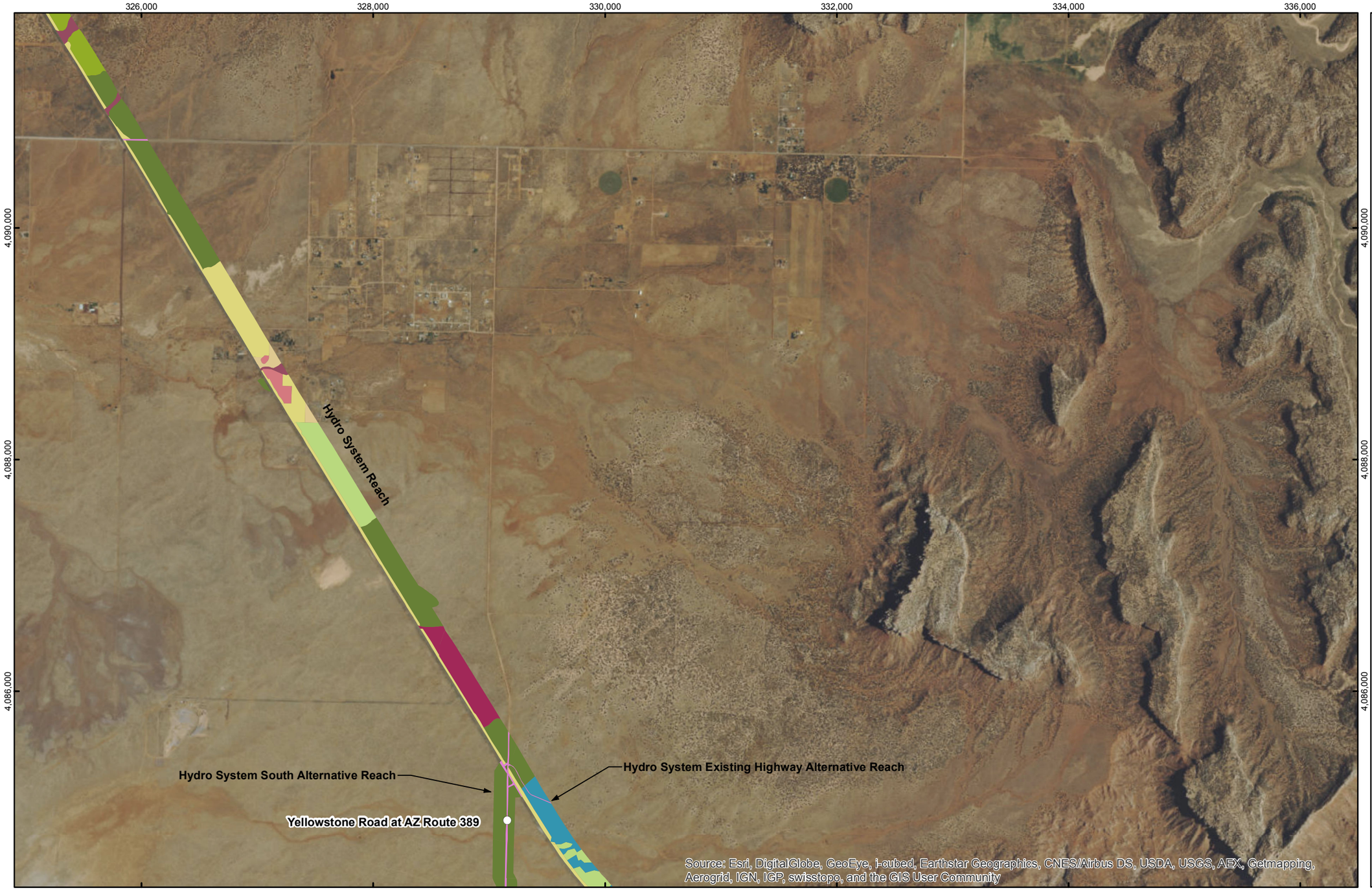
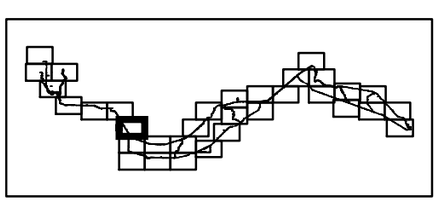
Map Projection: NAD1983, UTM Zone 12 North
Sources: Arizona/Utah Transportation Information System GIS Coverage (2007)
ESRI, v92, Aerial Imagery



Lake Powell Pipeline Ecological Systems Key

Ecological System

- Colorado Plateau Mixed Desert Scrub
- Colorado Plateau Wash
- Colorado Plateau Pinyon-Juniper Woodland
- Colorado Plateau Active and Stabilized Dune
- Colorado Plateau Blackbrush-Mormon-tea Shrubland
- Ruderal Vegetation
- Agricultural land
- Developed - Road
- Developed land
- Invasive Upland Vegetation



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Map Projection: NAD1983, UTM Zone 12 North
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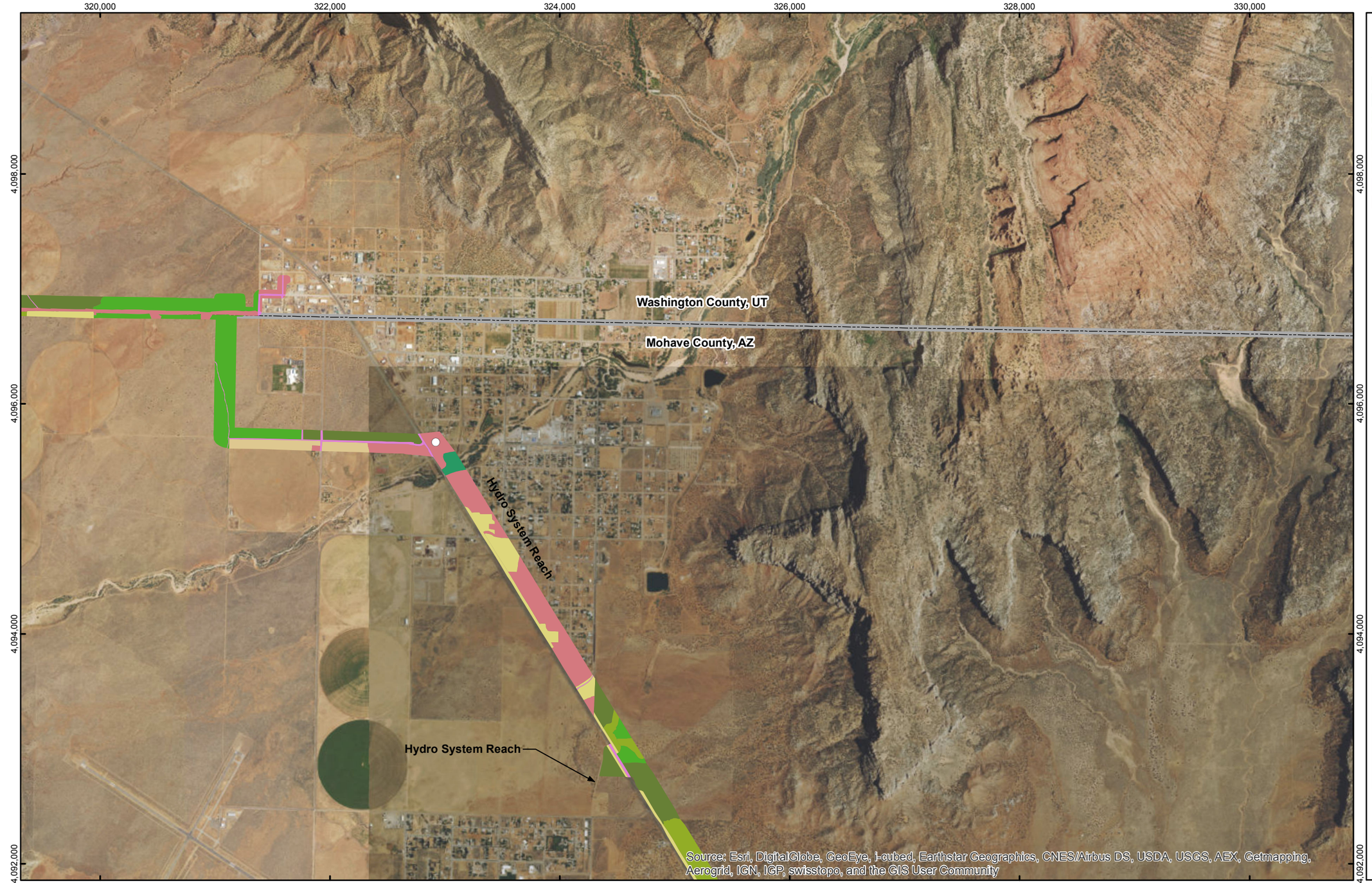
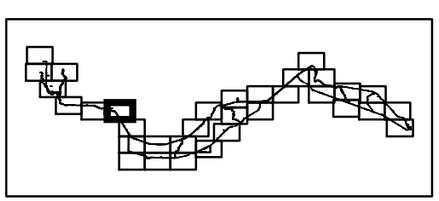
ESRI, v92, Aerial Imagery



Lake Powell Pipeline Ecological Systems Key

Ecological System

- Colorado Plateau Mixed Desert Scrub
- Colorado Plateau Lower Montane Riparian Woodland and Shrubland
- Colorado Plateau Big Sagebrush Shrubland
- Colorado Plateau Pinyon-Juniper Woodland
- Ruderal Vegetation
- Agricultural land
- Developed - Road
- Developed land



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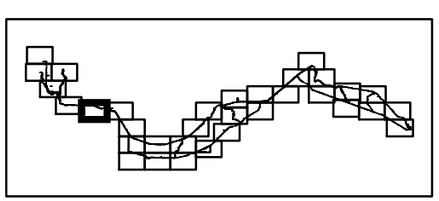
Map Projection: NAD1983, UTM Zone 12 North
Sources: Arizona/Utah Transportation Information System GIS Coverage (2007)
ESRI, v92, Aerial Imagery

Lake Powell Pipeline Ecological Systems Key

Ecological System

- Colorado Plateau Mixed Desert Scrub
- Colorado Plateau Greasewood Flat
- Colorado Plateau Lower Montane Riparian Woodland and Shrubland
- Colorado Plateau Big Sagebrush Shrubland
- Colorado Plateau Shrub-Steppe
- Colorado Plateau Wash
- Colorado Plateau Pinyon-Juniper Woodland
- Colorado Plateau Mixed Bedrock Canyon and Tableland
- Ruderal Vegetation
- Agricultural land
- Developed - Road
- Quarry
- Developed land



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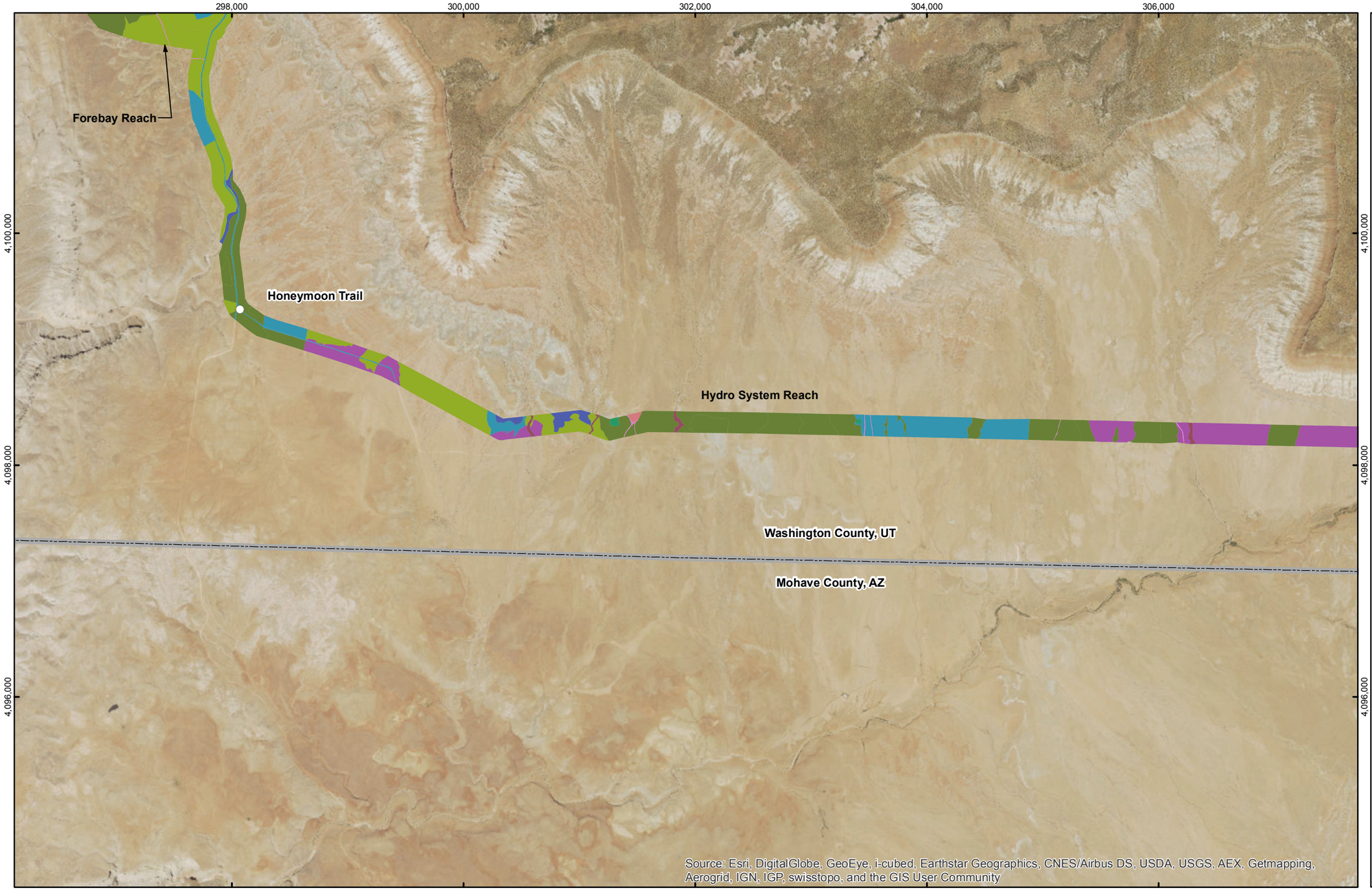
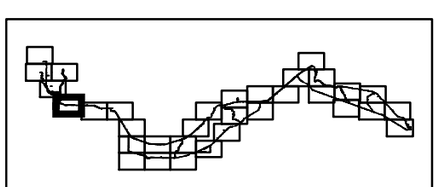
Map Projection: NAD1983, UTM Zone 12 North
Sources: Arizona/Utah Transportation Information System GIS Coverage (2007)
ESRI, v92, Aerial Imagery



Lake Powell Pipeline Ecological Systems Key

Ecological System

- Colorado Plateau Mixed Desert Scrub
- Colorado Plateau Lower Montane Riparian Woodland and Shrubland
- Colorado Plateau Shrub-Steppe
- Colorado Plateau Gypsum Badlands
- Colorado Plateau Wash
- Colorado Plateau Pinyon-Juniper Woodland
- Colorado Plateau Blackbrush-Mormon-tea Shrubland
- Agricultural land
- Developed - Road
- Developed land
- Invasive Upland Vegetation



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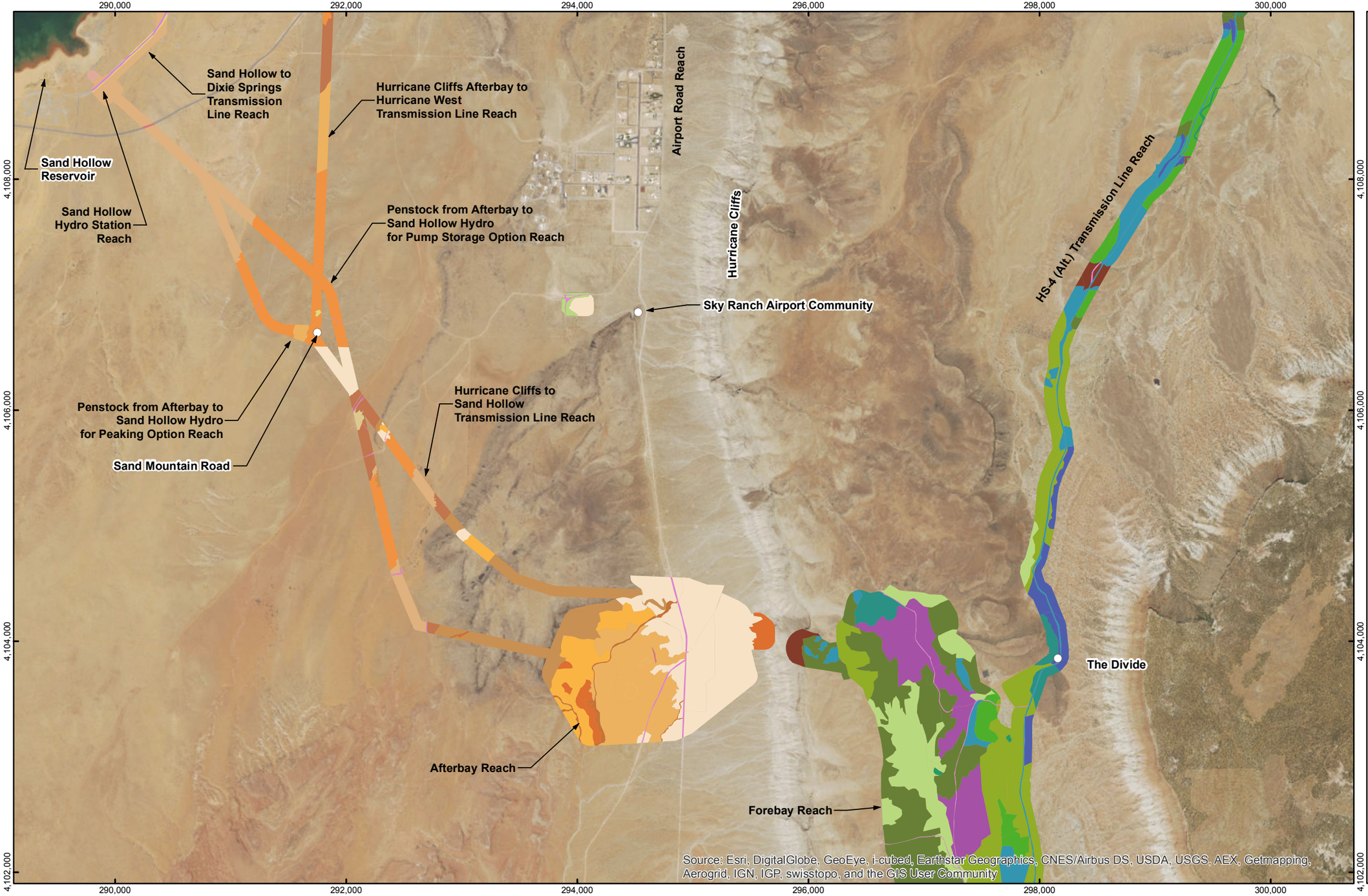
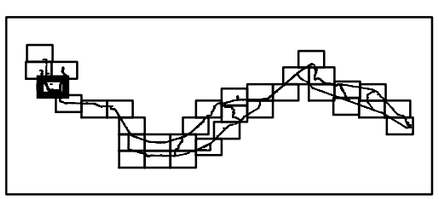
Map Projection: NAD1983, UTM Zone 12 North
Sources: Arizona/Utah Transportation Information System GIS Coverage (2007)
ESRI, v92, Aerial Imagery



Lake Powell Pipeline Ecological Systems Key

Ecological System

- Colorado Plateau Mixed Desert Scrub
- Colorado Plateau Lower Montane Riparian Woodland and Shrubland
- Colorado Plateau Big Sagebrush Shrubland
- Colorado Plateau Shrub-Steppe
- Colorado Plateau Volcanic Rock and Cinder Land
- Colorado Plateau Gypsum Badlands
- Colorado Plateau Wash
- Colorado Plateau Pinyon-Juniper Woodland
- Colorado Plateau Mixed Bedrock Canyon and Tableland
- Colorado Plateau Blackbrush-Mormon-tea Shrubland
- Mojave Desert Blackbrush-Mormon-tea Shrubland
- Mojave Desert Grassland
- Mojave Desert Mixed Desert Scrub
- Mojave Desert Volcanic Rock and Cinder Land
- Mojave Desert Bedrock Cliff and Outcrop
- Mojave Desert Shrub-Steppe
- Mojave Desert Creosotebush-White Bursage Desert Scrub
- Mojave Desert Active and Stabilized Dune
- Mojave Desert Wash
- Ruderal Vegetation
- Agricultural land
- Developed - Road
- Developed land
- Invasive Upland Vegetation
- Reservoir



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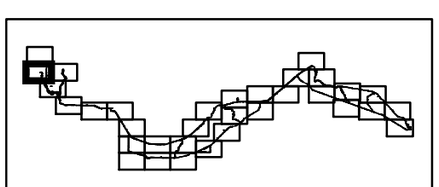
Map Projection: NAD1983, UTM Zone 12 North
Sources: Arizona/Utah Transportation Information System GIS Coverage (2007)
ESRI, v92, Aerial Imagery

Lake Powell Pipeline Ecological Systems Key

Ecological System

- Mojave Desert Grassland
- Mojave Desert Mixed Desert Scrub
- Mojave Desert Volcanic Rock and Cinder Land
- Mojave Desert Lower Montane Riparian Woodland and Shrubland
- Mojave Desert Shrub-Steppe
- Mojave Desert Creosotebush-White Bursage Desert Scrub
- Mojave Desert Active and Stabilized Dune
- Ruderal Vegetation
- Agricultural land
- Developed - Road
- Developed land
- Invasive Upland Vegetation



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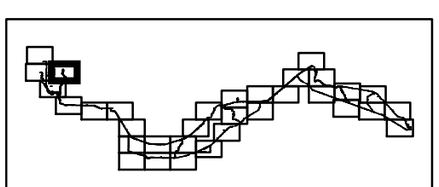
Map Projection: NAD1983, UTM Zone 12 North
Sources: Arizona/Utah Transportation Information System GIS Coverage (2007)
ESRI, v92, Aerial Imagery

Lake Powell Pipeline Ecological Systems

Key

Ecological System

- Colorado Plateau Mixed Desert Scrub
- Colorado Plateau Lower Montane Riparian Woodland and Shrubland
- Colorado Plateau Big Sagebrush Shrubland
- Colorado Plateau Shrub-Steppe
- Colorado Plateau Gypsum Badlands
- Colorado Plateau Wash
- Colorado Plateau Blackbrush-Mormon-tea Shrubland
- Ruderal Vegetation
- Agricultural land
- Developed - Road
- Developed land
- Invasive Upland Vegetation



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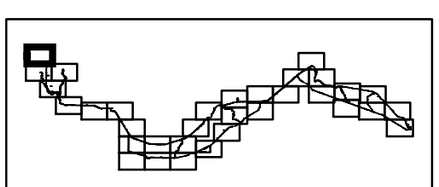
Map Projection: NAD1983, UTM Zone 12 North
Sources: Arizona/Utah Transportation Information System GIS Coverage (2007)
ESRI, v92, Aerial Imagery

Lake Powell Pipeline Ecological Systems Key

Ecological System

- Mojave Desert Blackbrush-Mormon-tea Shrubland
- Mojave Desert Mixed Desert Scrub
- Mojave Desert Volcanic Rock and Cinder Land
- Mojave Desert Shrub-Steppe
- Mojave Desert Creosotebush-White Bursage Desert Scrub
- Ruderal Vegetation
- Developed - Road
- Developed land



Feet

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Map Projection: NAD1983, UTM Zone 12 North
Sources: Arizona/Utah Transportation Information System GIS Coverage (2007)
ESRI, v92, Aerial Imagery