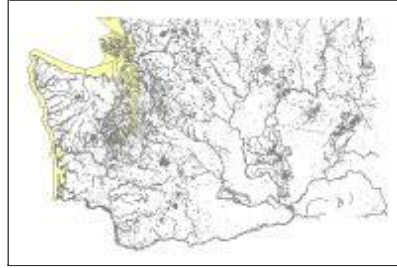


## ROPA.WBHYDRO

### SDE Feature Class



### Tags

impoundment, island, pond, watershed, ocean, water bodies, reservoir, inlandWaters, dam, Washington, inundation, wet area, water body, snowfield, Washington State, hydro, water, shoreline, drainage system, puget sound, hydrography, lake, hatchery, ditch, canal, glacier, stream, surface water, Pacific Northwest

### Summary

DNR HYDRO supports many agency programs and mandates and is available to the public. Agency uses include state base maps; landscape analyses and modeling; the Family Forest Fish Passage Program; landslide mapping; the Sustainable Harvest Calculation; fire protection; the Natural Heritage Program; and the Trust Forestland HCP water typing system. DNR HYDRO is also used for Forest Practices water typing. The dataset serves as the Forest Practices Water Type Map. The Forest Practices water typing system is used in the planning and regulation of forest practices on state and private forest land. Forest Practices water types (WAC 222-16-031) are intended for DNR Forest Practices regulatory purposes only.

### Description

The DNR water course (WC), water body (WB), and water shoreline (WS) datasets, collectively known as DNR HYDRO, make up the most up-to-date hydrography layer for the state of Washington. WC represents water courses as arcs or lines. These occur alone as single arcs representing streams, ditches, or pipelines, or as centerlines through water body polygons such as double-banked streams, lakes, impoundments, reservoirs, wet areas, or glaciers. WB represents water bodies as polygonal features. WB includes features such as Puget Sound, lakes, wet areas, reservoirs, impoundments, glaciers, islands, and dams. WS represents shorelines as polygon perimeter arcs. The WC and WBWS are edited daily and simultaneously; updates are posted weekly for internal DNR use and monthly for external use. Attribute interrelationships within the WC and within the WBWS and spatial and attribute interrelationships between the WC and WBWS are maintained. DNR HYDRO is continually updated through the DNR Forest Practices Water Type Modification Form process. DNR HYDRO is mixed scale. The nominal scale is considered 1:24,000, but some data at larger scales are included.

### Credits

There are no credits for this item.

### Use limitations

There are no access and use limitations for this item.

## ArcGIS Metadata ►

### Topics and Keywords ►

THEMES OR CATEGORIES OF THE RESOURCE inlandWaters

\* CONTENT TYPE Downloadable Data

PLACE KEYWORDS Washington, Washington State, Pacific Northwest

THEME KEYWORDS inlandWaters

THESAURUS ►

TITLE ISO 19115 Topic Category

[Hide Thesaurus ▲](#)

THEME KEYWORDS impoundment, island, pond, watershed, ocean, water bodies, reservoir, dam, inundation, wet area, water body, snowfield, hydro, water, shoreline, drainage system, puget sound, hydrography, lake, hatchery, ditch, canal, glacier, stream, surface water

[Hide Topics and Keywords ▲](#)

## Citation ►

\* TITLE ROPA.WBHYDRO

PRESENTATION FORMATS \* digital map

[Hide Citation ▲](#)

## Citation Contacts ►

RESPONSIBLE PARTY

ORGANIZATION'S NAME Washington State Department of Natural Resources (DNR)

CONTACT'S ROLE originator

[Hide Citation Contacts ▲](#)

## Resource Details ►

DATASET LANGUAGES English (UNITED STATES)

DATASET CHARACTER SET utf8 - 8 bit UCS Transfer Format

STATUS completed

SPATIAL REPRESENTATION TYPE \* vector

SUPPLEMENTAL INFORMATION

Within DNR, HYDRO is available on ROPA as WCHYDRO, WBHYDRO, and WSHYDRO SDE Enterprise Geodatabase Feature Classes. Externally, the data set can be downloaded free of charge from the DNR GIS Data Center web page [http://www.dnr.wa.gov/BusinessPermits/Topics/Data/Pages/gis\\_data\\_center.aspx](http://www.dnr.wa.gov/BusinessPermits/Topics/Data/Pages/gis_data_center.aspx), click on Available GIS Data. Attributes identified by the "FP\_" prefix (for example: FP\_WTRTY\_1975\_CD, FP\_WTRTY\_1975\_DT, FP\_WTRTY\_CD, FP\_EXP\_CD, FP\_WTRTY\_APPR\_DT, etc.) are intended for DNR Forest Practices regulatory purposes only. The HYDRO data sets are refreshed weekly.

\* PROCESSING ENVIRONMENT Microsoft Windows Server 2008 R2 Version 6.1 (Build 7601) Service Pack 1; ESRI ArcGIS 10.0.5.4400

ARCGIS ITEM PROPERTIES

\* NAME ROPA.WBHYDRO

\* LOCATION Server=panhead; Service=sde:oracle11g:/; LOCAL=ROPA; User=ropa; Version=SDE.DEFAULT

\* ACCESS PROTOCOL ArcSDE Connection

[Hide Resource Details ▲](#)

## Extents ►

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching

\* WEST LONGITUDE -124.926702

\* EAST LONGITUDE -116.707810

\* NORTH LATITUDE 49.049339

\* SOUTH LATITUDE 45.477175

\* EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

\* WEST LONGITUDE 576751.629000

\* EAST LONGITUDE 2551363.940000

\* SOUTH LATITUDE 80429.642000

\* NORTH LATITUDE 1355595.000000

\* EXTENT CONTAINS THE RESOURCE Yes

[Hide Extents ▲](#)

## Resource Points of Contact ►

POINT OF CONTACT

INDIVIDUAL'S NAME Forest Practices Hydro/Trans Data Steward

ORGANIZATION'S NAME Washington State Department of Natural Resources, Forest Practices Division

CONTACT'S POSITION Hydrography and Transportation Data Steward

CONTACT'S ROLE point of contact

CONTACT INFORMATION ►

PHONE

VOICE 360.902.1400

FAX 360.902.1428

ADDRESS

TYPE both

DELIVERY POINT 1111 WASHINGTON STREET S.E.

DELIVERY POINT PO Box 47012

CITY OLYMPIA

ADMINISTRATIVE AREA WA

POSTAL CODE 98504-7012

COUNTRY US

E-MAIL ADDRESS [fpd@dnr.wa.gov](mailto:fpd@dnr.wa.gov)

[Hide Contact information ▲](#)

[Hide Resource Points of Contact ▲](#)

## Resource Maintenance ►

RESOURCE MAINTENANCE

UPDATE FREQUENCY weekly

[Hide Resource Maintenance ▲](#)

## Resource Constraints ►

LEGAL CONSTRAINTS

LIMITATIONS OF USE

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#### OTHER CONSTRAINTS

WA ISB, IT Security, Data Category 1 - Public Information (See Security Information). External requests for this data should be directed to the WA DNR GIS Data Center web site ([http://www.dnr.wa.gov/BusinessPermits/Topics/Data/Pages/gis\\_data\\_center.aspx](http://www.dnr.wa.gov/BusinessPermits/Topics/Data/Pages/gis_data_center.aspx)).

#### SECURITY CONSTRAINTS

**CLASSIFICATION SYSTEM** WA ISB, Information Technology Security Standards, Policy 401-S4

**ADDITIONAL RESTRICTIONS** Data Category 1 - Public Information: Public information is information that can be or currently is released to the public. It does not need protection from unauthorized disclosure, but does need integrity and availability protection controls. (Washington State Information Services Board, Information Technology Security Standards, Policy 401-S4, <http://isb.wa.gov/policies/401S.doc>).

[Hide Resource Constraints ▲](#)

## Spatial Reference ►

#### ARCGIS COORDINATE SYSTEM

- \* **TYPE** Projected
- \* **GEOGRAPHIC COORDINATE REFERENCE** GCS\_North\_American\_1983\_HARN
- \* **PROJECTION** NAD\_1983\_HARN\_StatePlane\_Washington\_South\_FIPS\_4602\_Feet
- \* **COORDINATE REFERENCE DETAILS**

##### PROJECTED COORDINATE SYSTEM

**WELL-KNOWN IDENTIFIER** 2927

**X ORIGIN** -117498300

**Y ORIGIN** -98850300

**XY SCALE** 1000

**Z ORIGIN** 0

**Z SCALE** 1

**M ORIGIN** 0

**M SCALE** 1

**XY TOLERANCE** 0.002

**Z TOLERANCE** 0.001

**M TOLERANCE** 0.001

**HIGH PRECISION** true

**WELL-KNOWN TEXT** PROJCS

```
[ "NAD_1983_HARN_StatePlane_Washington_South_FIPS_4602_Feet", GEOGCS
[ "GCS_North_American_1983_HARN", DATUM[ "D_North_American_1983_HARN", SPHEROID
[ "GRS_1980", 6378137.0, 298.257222101 ] ], PRIMEM[ "Greenwich", 0.0 ], UNIT
[ "Degree", 0.0174532925199433 ] ], PROJECTION[ "Lambert_Conformal_Conic" ], PARAMETER
[ "False_Easting", 1640416.6666666667 ], PARAMETER[ "False_Northing", 0.0 ], PARAMETER
[ "Central_Meridian", -120.5 ], PARAMETER[ "Standard_Parallel_1", 45.83333333333334 ], PARAMETER
[ "Standard_Parallel_2", 47.33333333333334 ], PARAMETER
[ "Latitude_Of_Origin", 45.33333333333334 ], UNIT[ "Foot_US", 0.3048006096012192 ], AUTHORITY
[ "EPSG", 2927 ] ]
```

#### REFERENCE SYSTEM IDENTIFIER

- \* **VALUE** 2927
- \* **CODESPACE** EPSG
- \* **VERSION** 7.4.1

[Hide Spatial Reference ▲](#)

## Spatial Data Properties ►

VECTOR ►

\* LEVEL OF TOPOLOGY FOR THIS DATASET geometry only

GEOMETRIC OBJECTS

FEATURE CLASS NAME ROPA.WBHYDRO

\* OBJECT TYPE composite

\* OBJECT COUNT 71989

[Hide Vector ▲](#)

ARCGIS FEATURE CLASS PROPERTIES ►

\* FEATURE TYPE Simple

\* GEOMETRY TYPE Polygon

\* HAS TOPOLOGY FALSE

\* FEATURE COUNT 71989

\* SPATIAL INDEX TRUE

\* LINEAR REFERENCING FALSE

[Hide ArcGIS Feature Class Properties ▲](#)

[Hide Spatial Data Properties ▲](#)

## Data Quality ►

SCOPE OF QUALITY INFORMATION ►

RESOURCE LEVEL dataset

[Hide Scope of quality information ▲](#)

DATA QUALITY REPORT - ABSOLUTE EXTERNAL POSITIONAL ACCURACY ►

DIMENSION horizontal

MEASURE DESCRIPTION National Map Accuracy Standards of +/- 40 feet (12.19 meters).

[Hide Data quality report - Absolute external positional accuracy ▲](#)

[Hide Data Quality ▲](#)

## Lineage ►

SOURCE DATA ►

DESCRIPTION DNR Washington State Mixed Scale Hydrography Historical Outline: 1987 - 1992 DNR HYDRO initially created from hydrographic features displayed on U.S. Geological Survey (USGS) 1:24,000 scale topographic maps for DNR Forest Practices Division. 1992 - 1994 Photogrammetric compilation of data for forested state, private, and some federal and tribal lands. This compilation was done by township. Where townships contained federal lands and state or private land the entire township was included. 1995 - 1996 Data for all other areas of the state were received in various formats and with differing compilation specifications from federal agencies and processed to produce the "DATA96" dataset. Changes continually accepted into the data set through DNR Forest Practices. 2000 DATA96 split into DNR operational HYDRO which continued to receive edits and a fixed snapshot that became the basis for the Conversion Project. 2003 - 2004 DNR HYDRO Conversion Project.

Production and extensive, systematic QA/QC to produce new DNR data in the Pacific Northwest Hydrography Framework Clearinghouse (Framework) data model in ESRI arc/node topology format. 2004 - 2006 Forest Practices Backlog Update Project. Systematic update of DNR HYDRO with backlog of all changes since 2000. 2004 - 2006 Forest Practices Water Typing Project. New Forest Practices Water Typing Classification system implemented. System is based on a multi-parameter, field-verified geographic information system (GIS) logistic regression model and modified by field observations as administered by DNR Forest Practices and reviewed by the Timber/Fish/Wildlife Agreement cooperators. The new system became operational for Western Washington on March 1, 2005, and for Eastern Washington on March 1, 2006. PRESENT - Changes continue to be accepted into DNR HYDRO through the DNR Forest Practices Water Type Modification Form (WTMF) process. DNR HYDRO is in ESRI coverage format and is edited in Workstation Arc/Info. See [http://www.dnr.wa.gov/BusinessPermits/Topics/ForestPracticesApplications/Pages/fp\\_watertyping.aspx](http://www.dnr.wa.gov/BusinessPermits/Topics/ForestPracticesApplications/Pages/fp_watertyping.aspx)

RESOLUTION OF THE SOURCE DATA  
SCALE DENOMINATOR 0

[Hide Source data ▲](#)

[Hide Lineage ▲](#)

## Geoprocessing history ►

### PROCESS

DATE 2014-06-20 17:36:28

TOOL LOCATION C:\Program Files (x86)\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx\Append

#### COMMAND ISSUED

```
Append 'Database Connections\esri_prod_hydro_spatial_dc.sde\HYDRO_SPATIAL.WBHYDRO_SV'
'Database Connections\esri_ropa_dc.sde\ROPA.WBHYDRO' TEST # #
```

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

### PROCESS

DATE 2014-06-20 17:40:20

TOOL LOCATION C:\Program Files (x86)\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx\ChangePrivileges

#### COMMAND ISSUED

```
ChangePrivileges 'Database Connections\esri_ropa_dc.sde\ROPA.WBHYDRO' ropa_read GRANT
#
```

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

### PROCESS

DATE 2014-06-20 17:40:34

TOOL LOCATION C:\Program Files (x86)\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx\ChangePrivileges

#### COMMAND ISSUED

```
ChangePrivileges 'Database Connections\esri_ropa_dc.sde\ROPA.WBHYDRO' metadata GRANT
#
```

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

### PROCESS

DATE 2014-06-20 17:40:50

TOOL LOCATION C:\Program Files (x86)\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx\ChangePrivileges

#### COMMAND ISSUED

```
ChangePrivileges 'Database Connections\esri_ropa_dc.sde\ROPA.WBHYDRO' wdf_w_reader
GRANT #
```

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

### PROCESS

DATE 2014-06-20 17:41:09

TOOL LOCATION C:\Program Files (x86)\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management

Tools.tbx\ChangePrivileges

COMMAND ISSUED

ChangePrivileges 'Database Connections\esri\_r opa\_dc.sde\ROPA.WBHYDRO' fpar\_s\_i ms GRANT #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

DATE 2014-06-20 17:41:29

TOOL LOCATION C:\Program Files (x86)\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx\ChangePrivileges

COMMAND ISSUED

ChangePrivileges 'Database Connections\esri\_r opa\_dc.sde\ROPA.WBHYDRO' separamaps\_user GRANT #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

DATE 2014-06-20 18:41:07

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx\DeleteFeatures

COMMAND ISSUED

DeleteFeatures c:\sde\_connections\ropa\_ropa.sde\ROPA.WBHYDRO

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

DATE 2014-06-20 18:42:15

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx\Append

COMMAND ISSUED

Append c:\sde\_connections\prod\_hydro\_spatial\_default.sde\HYDRO\_SPATIAL.WBHYDRO\_SV c:\sde\_connections\ropa\_ropa.sde\ROPA.WBHYDRO TEST # #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

DATE 2014-06-29 07:54:32

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx\DeleteFeatures

COMMAND ISSUED

DeleteFeatures c:\sde\_connections\ropa\_ropa.sde\ROPA.WBHYDRO

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

DATE 2014-06-29 07:55:38

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx\Append

COMMAND ISSUED

Append c:\sde\_connections\prod\_hydro\_spatial\_default.sde\HYDRO\_SPATIAL.WBHYDRO\_SV c:\sde\_connections\ropa\_ropa.sde\ROPA.WBHYDRO TEST # #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

DATE 2014-07-04 22:17:56

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx\DeleteFeatures

COMMAND ISSUED

DeleteFeatures c:\sde\_connections\ropa\_ropa.sde\ROPA.WBHYDRO

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

DATE 2014-07-04 22:19:07

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx\Append

COMMAND ISSUED

Append c:\sde\_connections\prod\_hydro\_spatial\_default.sde\HYDRO\_SPATIAL.WBHYDRO\_SV

c:\sde\_connect\_ions\ropa\_ropa.sde\ROPA.WBHYDRO TEST # #  
INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

## PROCESS

DATE 2014-07-11 22:13:36  
TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx>DeleteFeatures  
COMMAND ISSUED  
DeleteFeatures c:\sde\_connect\_ions\ropa\_ropa.sde\ROPA.WBHYDRO  
INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

## PROCESS

DATE 2014-07-11 22:14:45  
TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx\Append  
COMMAND ISSUED  
Append c:\sde\_connect\_ions\prod\_hydro\_spatial\_default.sde\HYDRO\_SPATIAL.WBHYDRO\_SV  
c:\sde\_connect\_ions\ropa\_ropa.sde\ROPA.WBHYDRO TEST # #  
INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

## PROCESS

DATE 2014-07-18 22:13:43  
TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx>DeleteFeatures  
COMMAND ISSUED  
DeleteFeatures c:\sde\_connect\_ions\ropa\_ropa.sde\ROPA.WBHYDRO  
INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

## PROCESS

DATE 2014-07-18 22:14:44  
TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx\Append  
COMMAND ISSUED  
Append c:\sde\_connect\_ions\prod\_hydro\_spatial\_default.sde\HYDRO\_SPATIAL.WBHYDRO\_SV  
c:\sde\_connect\_ions\ropa\_ropa.sde\ROPA.WBHYDRO TEST # #  
INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

## PROCESS

DATE 2014-07-25 22:14:10  
TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx>DeleteFeatures  
COMMAND ISSUED  
DeleteFeatures c:\sde\_connect\_ions\ropa\_ropa.sde\ROPA.WBHYDRO  
INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

## PROCESS

DATE 2014-07-25 22:15:15  
TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx\Append  
COMMAND ISSUED  
Append c:\sde\_connect\_ions\prod\_hydro\_spatial\_default.sde\HYDRO\_SPATIAL.WBHYDRO\_SV  
c:\sde\_connect\_ions\ropa\_ropa.sde\ROPA.WBHYDRO TEST # #  
INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

## PROCESS

DATE 2014-08-01 22:13:42  
TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx>DeleteFeatures  
COMMAND ISSUED  
DeleteFeatures c:\sde\_connect\_ions\ropa\_ropa.sde\ROPA.WBHYDRO  
INCLUDE IN LINEAGE WHEN EXPORTING METADATA No



## PROCESS

DATE 2014-08-01 22:14:48

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx\Append

## COMMAND ISSUED

Append c:\sde\_connect\_ions\prod\_hydro\_spatial\_default.sde\HYDRO\_SPATIAL.WBHYDRO\_SV  
c:\sde\_connect\_ions\ropa\_ropa.sde\ROPA.WBHYDRO TEST # #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

## PROCESS

DATE 2014-08-08 22:14:25

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx&gt;DeleteFeatures

## COMMAND ISSUED

DeleteFeatures c:\sde\_connect\_ions\ropa\_ropa.sde\ROPA.WBHYDRO

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

## PROCESS

DATE 2014-08-08 22:15:40

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx\Append

## COMMAND ISSUED

Append c:\sde\_connect\_ions\prod\_hydro\_spatial\_default.sde\HYDRO\_SPATIAL.WBHYDRO\_SV  
c:\sde\_connect\_ions\ropa\_ropa.sde\ROPA.WBHYDRO TEST # #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

## PROCESS

DATE 2014-08-15 22:16:00

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx&gt;DeleteFeatures

## COMMAND ISSUED

DeleteFeatures c:\sde\_connect\_ions\ropa\_ropa.sde\ROPA.WBHYDRO

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

## PROCESS

DATE 2014-08-15 22:17:07

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx\Append

## COMMAND ISSUED

Append c:\sde\_connect\_ions\prod\_hydro\_spatial\_default.sde\HYDRO\_SPATIAL.WBHYDRO\_SV  
c:\sde\_connect\_ions\ropa\_ropa.sde\ROPA.WBHYDRO TEST # #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

## PROCESS

DATE 2014-08-22 22:13:01

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx&gt;DeleteFeatures

## COMMAND ISSUED

DeleteFeatures c:\sde\_connect\_ions\ropa\_ropa.sde\ROPA.WBHYDRO

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

## PROCESS

DATE 2014-08-22 22:14:06

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx\Append

## COMMAND ISSUED

Append c:\sde\_connect\_ions\prod\_hydro\_spatial\_default.sde\HYDRO\_SPATIAL.WBHYDRO\_SV  
c:\sde\_connect\_ions\ropa\_ropa.sde\ROPA.WBHYDRO TEST # #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

## PROCESS

DATE 2014-08-29 22:12:46

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx>DeleteFeatures

## COMMAND ISSUED

Del et eFeat ur es c:\sde\_connect i ons\r opa\_r opa. sde\ ROPA. WBHYDRO

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

## PROCESS

DATE 2014-08-29 22:13:46

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx\Append

## COMMAND ISSUED

Append c:\sde\_connect i ons\pr od\_hydr o\_spat i al\_def aul t. sde\ HYDRO\_SPATI AL. WBHYDRO\_SV  
c:\sde\_connect i ons\r opa\_r opa. sde\ ROPA. WBHYDRO TEST # #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

## PROCESS

DATE 2014-09-05 22:13:53

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx>DeleteFeatures

## COMMAND ISSUED

Del et eFeat ur es c:\sde\_connect i ons\r opa\_r opa. sde\ ROPA. WBHYDRO

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

## PROCESS

DATE 2014-09-05 22:14:59

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx\Append

## COMMAND ISSUED

Append c:\sde\_connect i ons\pr od\_hydr o\_spat i al\_def aul t. sde\ HYDRO\_SPATI AL. WBHYDRO\_SV  
c:\sde\_connect i ons\r opa\_r opa. sde\ ROPA. WBHYDRO TEST # #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

## PROCESS

DATE 2014-09-12 22:14:19

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx>DeleteFeatures

## COMMAND ISSUED

Del et eFeat ur es c:\sde\_connect i ons\r opa\_r opa. sde\ ROPA. WBHYDRO

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

## PROCESS

DATE 2014-09-12 22:15:24

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx\Append

## COMMAND ISSUED

Append c:\sde\_connect i ons\pr od\_hydr o\_spat i al\_def aul t. sde\ HYDRO\_SPATI AL. WBHYDRO\_SV  
c:\sde\_connect i ons\r opa\_r opa. sde\ ROPA. WBHYDRO TEST # #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

## PROCESS

DATE 2014-09-20 13:07:40

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx>DeleteFeatures

## COMMAND ISSUED

Del et eFeat ur es c:\sde\_connect i ons\r opa\_r opa. sde\ ROPA. WBHYDRO

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

## PROCESS

DATE 2014-09-20 13:08:46

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx\Append

## COMMAND ISSUED

```
Append c:\sde_connect_ions\prod_hydro_spatial_default.sde\HYDRO_SPATIAL.WBHYDRO_SV
c:\sde_connect_ions\ropa_ropa.sde\ROPA.WBHYDRO TEST # #
```

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

DATE 2014-09-26 22:13:42

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx>DeleteFeatures

COMMAND ISSUED

```
DeleteFeatures c:\sde_connect_ions\ropa_ropa.sde\ROPA.WBHYDRO
```

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

DATE 2014-09-26 22:14:44

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx\Append

COMMAND ISSUED

```
Append c:\sde_connect_ions\prod_hydro_spatial_default.sde\HYDRO_SPATIAL.WBHYDRO_SV
c:\sde_connect_ions\ropa_ropa.sde\ROPA.WBHYDRO TEST # #
```

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

DATE 2014-10-03 22:19:53

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx>DeleteFeatures

COMMAND ISSUED

```
DeleteFeatures c:\sde_connect_ions\ropa_ropa.sde\ROPA.WBHYDRO
```

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

DATE 2014-10-03 22:21:12

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx\Append

COMMAND ISSUED

```
Append c:\sde_connect_ions\prod_hydro_spatial_default.sde\HYDRO_SPATIAL.WBHYDRO_SV
c:\sde_connect_ions\ropa_ropa.sde\ROPA.WBHYDRO TEST # #
```

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

DATE 2014-10-10 22:18:47

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx>DeleteFeatures

COMMAND ISSUED

```
DeleteFeatures c:\sde_connect_ions\ropa_ropa.sde\ROPA.WBHYDRO
```

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

DATE 2014-10-10 22:20:04

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx\Append

COMMAND ISSUED

```
Append c:\sde_connect_ions\prod_hydro_spatial_default.sde\HYDRO_SPATIAL.WBHYDRO_SV
c:\sde_connect_ions\ropa_ropa.sde\ROPA.WBHYDRO TEST # #
```

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

DATE 2014-10-17 22:15:17

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx>DeleteFeatures

COMMAND ISSUED

```
DeleteFeatures c:\sde_connect_ions\ropa_ropa.sde\ROPA.WBHYDRO
```

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

## PROCESS

DATE 2014-10-17 22:16:30

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx\Append

## COMMAND ISSUED

Append c:\sde\_connect\_ions\prod\_hydro\_spatial\_default.sde\HYDRO\_SPATIAL.WBHYDRO\_SV  
c:\sde\_connect\_ions\ropa\_ropa.sde\ROPA.WBHYDRO TEST # #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

## PROCESS

DATE 2014-10-24 22:14:46

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx&gt;DeleteFeatures

## COMMAND ISSUED

DeleteFeatures c:\sde\_connect\_ions\ropa\_ropa.sde\ROPA.WBHYDRO

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

## PROCESS

DATE 2014-10-24 22:15:55

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx\Append

## COMMAND ISSUED

Append c:\sde\_connect\_ions\prod\_hydro\_spatial\_default.sde\HYDRO\_SPATIAL.WBHYDRO\_SV  
c:\sde\_connect\_ions\ropa\_ropa.sde\ROPA.WBHYDRO TEST # #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

## PROCESS

DATE 2014-10-31 22:14:39

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx&gt;DeleteFeatures

## COMMAND ISSUED

DeleteFeatures c:\sde\_connect\_ions\ropa\_ropa.sde\ROPA.WBHYDRO

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

## PROCESS

DATE 2014-10-31 22:15:57

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx\Append

## COMMAND ISSUED

Append c:\sde\_connect\_ions\prod\_hydro\_spatial\_default.sde\HYDRO\_SPATIAL.WBHYDRO\_SV  
c:\sde\_connect\_ions\ropa\_ropa.sde\ROPA.WBHYDRO TEST # #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

## PROCESS

DATE 2014-11-03 22:14:21

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx&gt;DeleteFeatures

## COMMAND ISSUED

DeleteFeatures c:\sde\_connect\_ions\ropa\_ropa.sde\ROPA.WBHYDRO

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

## PROCESS

DATE 2014-11-03 22:15:34

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx\Append

## COMMAND ISSUED

Append c:\sde\_connect\_ions\prod\_hydro\_spatial\_default.sde\HYDRO\_SPATIAL.WBHYDRO\_SV  
c:\sde\_connect\_ions\ropa\_ropa.sde\ROPA.WBHYDRO TEST # #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

## PROCESS

DATE 2014-11-07 22:16:55

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx>DeleteFeatures

## COMMAND ISSUED

Del et eFeat ur es c:\sde\_connect i ons\r opa\_r opa. sde\ ROPA. WBHYDRO

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

## PROCESS

DATE 2014-11-07 22:18:01

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx\Append

## COMMAND ISSUED

Append c:\sde\_connect i ons\pr od\_hydr o\_spat i al\_def aul t. sde\ HYDRO\_SPATI AL. WBHYDRO\_SV  
c:\sde\_connect i ons\r opa\_r opa. sde\ ROPA. WBHYDRO TEST # #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

## PROCESS

DATE 2014-11-14 22:13:23

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx>DeleteFeatures

## COMMAND ISSUED

Del et eFeat ur es c:\sde\_connect i ons\r opa\_r opa. sde\ ROPA. WBHYDRO

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

## PROCESS

DATE 2014-11-14 22:14:30

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx\Append

## COMMAND ISSUED

Append c:\sde\_connect i ons\pr od\_hydr o\_spat i al\_def aul t. sde\ HYDRO\_SPATI AL. WBHYDRO\_SV  
c:\sde\_connect i ons\r opa\_r opa. sde\ ROPA. WBHYDRO TEST # #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

## PROCESS

DATE 2014-11-21 22:13:20

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx>DeleteFeatures

## COMMAND ISSUED

Del et eFeat ur es c:\sde\_connect i ons\r opa\_r opa. sde\ ROPA. WBHYDRO

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

## PROCESS

DATE 2014-11-21 22:14:22

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx\Append

## COMMAND ISSUED

Append c:\sde\_connect i ons\pr od\_hydr o\_spat i al\_def aul t. sde\ HYDRO\_SPATI AL. WBHYDRO\_SV  
c:\sde\_connect i ons\r opa\_r opa. sde\ ROPA. WBHYDRO TEST # #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

## PROCESS

DATE 2014-11-28 22:15:14

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx>DeleteFeatures

## COMMAND ISSUED

Del et eFeat ur es c:\sde\_connect i ons\r opa\_r opa. sde\ ROPA. WBHYDRO

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

## PROCESS

DATE 2014-11-28 22:16:20

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx\Append

## COMMAND ISSUED

```
Append c:\sde_connect_ions\prod_hydro_spatial_default.sde\HYDRO_SPATIAL.WBHYDRO_SV
c:\sde_connect_ions\ropa_ropa.sde\ROPA.WBHYDRO TEST # #
```

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

DATE 2014-12-05 22:13:38

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx>DeleteFeatures

COMMAND ISSUED

```
DeleteFeatures c:\sde_connect_ions\ropa_ropa.sde\ROPA.WBHYDRO
```

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

DATE 2014-12-05 22:14:45

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx\Append

COMMAND ISSUED

```
Append c:\sde_connect_ions\prod_hydro_spatial_default.sde\HYDRO_SPATIAL.WBHYDRO_SV
c:\sde_connect_ions\ropa_ropa.sde\ROPA.WBHYDRO TEST # #
```

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

DATE 2014-12-12 22:14:15

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx>DeleteFeatures

COMMAND ISSUED

```
DeleteFeatures c:\sde_connect_ions\ropa_ropa.sde\ROPA.WBHYDRO
```

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

DATE 2014-12-12 22:15:24

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx\Append

COMMAND ISSUED

```
Append c:\sde_connect_ions\prod_hydro_spatial_default.sde\HYDRO_SPATIAL.WBHYDRO_SV
c:\sde_connect_ions\ropa_ropa.sde\ROPA.WBHYDRO TEST # #
```

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

DATE 2014-12-19 22:24:33

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx>DeleteFeatures

COMMAND ISSUED

```
DeleteFeatures c:\sde_connect_ions\ropa_ropa.sde\ROPA.WBHYDRO
```

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

DATE 2014-12-19 22:26:19

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx\Append

COMMAND ISSUED

```
Append c:\sde_connect_ions\prod_hydro_spatial_default.sde\HYDRO_SPATIAL.WBHYDRO_SV
c:\sde_connect_ions\ropa_ropa.sde\ROPA.WBHYDRO TEST # #
```

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

DATE 2014-12-26 22:16:17

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx>DeleteFeatures

COMMAND ISSUED

```
DeleteFeatures c:\sde_connect_ions\ropa_ropa.sde\ROPA.WBHYDRO
```

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

## PROCESS

DATE 2014-12-26 22:17:27

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx\Append

## COMMAND ISSUED

Append c:\sde\_connect\_ions\prod\_hydro\_spatial\_default.sde\HYDRO\_SPATIAL.WBHYDRO\_SV  
c:\sde\_connect\_ions\ropa\_ropa.sde\ROPA.WBHYDRO TEST # #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

## PROCESS

DATE 2015-01-02 22:17:41

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx&gt;DeleteFeatures

## COMMAND ISSUED

DeleteFeatures c:\sde\_connect\_ions\ropa\_ropa.sde\ROPA.WBHYDRO

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

## PROCESS

DATE 2015-01-02 22:18:47

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx\Append

## COMMAND ISSUED

Append c:\sde\_connect\_ions\prod\_hydro\_spatial\_default.sde\HYDRO\_SPATIAL.WBHYDRO\_SV  
c:\sde\_connect\_ions\ropa\_ropa.sde\ROPA.WBHYDRO TEST # #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

## PROCESS

DATE 2015-01-09 22:13:40

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx&gt;DeleteFeatures

## COMMAND ISSUED

DeleteFeatures c:\sde\_connect\_ions\ropa\_ropa.sde\ROPA.WBHYDRO

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

## PROCESS

DATE 2015-01-09 22:14:49

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx\Append

## COMMAND ISSUED

Append c:\sde\_connect\_ions\prod\_hydro\_spatial\_default.sde\HYDRO\_SPATIAL.WBHYDRO\_SV  
c:\sde\_connect\_ions\ropa\_ropa.sde\ROPA.WBHYDRO TEST # #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

## PROCESS

DATE 2015-01-16 22:13:58

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx&gt;DeleteFeatures

## COMMAND ISSUED

DeleteFeatures c:\sde\_connect\_ions\ropa\_ropa.sde\ROPA.WBHYDRO

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

## PROCESS

DATE 2015-01-16 22:15:07

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx\Append

## COMMAND ISSUED

Append c:\sde\_connect\_ions\prod\_hydro\_spatial\_default.sde\HYDRO\_SPATIAL.WBHYDRO\_SV  
c:\sde\_connect\_ions\ropa\_ropa.sde\ROPA.WBHYDRO TEST # #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

## PROCESS

DATE 2015-01-23 22:15:01

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx>DeleteFeatures

## COMMAND ISSUED

Del et eFeat ur es c:\sde\_connect i ons\r opa\_r opa. sde\ ROPA. WBHYDRO

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

## PROCESS

DATE 2015-01-23 22:16:12

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx\Append

## COMMAND ISSUED

Append c:\sde\_connect i ons\pr od\_hydr o\_spat i al\_def aul t. sde\ HYDRO\_SPATI AL. WBHYDRO\_SV  
c:\sde\_connect i ons\r opa\_r opa. sde\ ROPA. WBHYDRO TEST # #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

## PROCESS

DATE 2015-01-30 22:17:05

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx>DeleteFeatures

## COMMAND ISSUED

Del et eFeat ur es c:\sde\_connect i ons\r opa\_r opa. sde\ ROPA. WBHYDRO

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

## PROCESS

DATE 2015-01-30 22:18:21

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx\Append

## COMMAND ISSUED

Append c:\sde\_connect i ons\pr od\_hydr o\_spat i al\_def aul t. sde\ HYDRO\_SPATI AL. WBHYDRO\_SV  
c:\sde\_connect i ons\r opa\_r opa. sde\ ROPA. WBHYDRO TEST # #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

## PROCESS

DATE 2015-02-06 22:13:16

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx>DeleteFeatures

## COMMAND ISSUED

Del et eFeat ur es c:\sde\_connect i ons\r opa\_r opa. sde\ ROPA. WBHYDRO

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

## PROCESS

DATE 2015-02-06 22:14:28

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx\Append

## COMMAND ISSUED

Append c:\sde\_connect i ons\pr od\_hydr o\_spat i al\_def aul t. sde\ HYDRO\_SPATI AL. WBHYDRO\_SV  
c:\sde\_connect i ons\r opa\_r opa. sde\ ROPA. WBHYDRO TEST # #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

## PROCESS

DATE 2015-02-13 22:13:40

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx>DeleteFeatures

## COMMAND ISSUED

Del et eFeat ur es c:\sde\_connect i ons\r opa\_r opa. sde\ ROPA. WBHYDRO

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

## PROCESS

DATE 2015-02-13 22:14:49

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx\Append

## COMMAND ISSUED



```
Append c:\sde_connect_ions\prod_hydro_spatial_default.sde\HYDRO_SPATIAL.WBHYDRO_SV
c:\sde_connect_ions\ropa_ropa.sde\ROPA.WBHYDRO TEST # #
```

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

DATE 2015-02-20 22:13:24

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx>DeleteFeatures

COMMAND ISSUED

```
DeleteFeatures c:\sde_connect_ions\ropa_ropa.sde\ROPA.WBHYDRO
```

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

DATE 2015-02-20 22:14:34

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx\Append

COMMAND ISSUED

```
Append c:\sde_connect_ions\prod_hydro_spatial_default.sde\HYDRO_SPATIAL.WBHYDRO_SV
c:\sde_connect_ions\ropa_ropa.sde\ROPA.WBHYDRO TEST # #
```

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

DATE 2015-02-27 22:14:39

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx>DeleteFeatures

COMMAND ISSUED

```
DeleteFeatures c:\sde_connect_ions\ropa_ropa.sde\ROPA.WBHYDRO
```

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

DATE 2015-02-27 22:15:59

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx\Append

COMMAND ISSUED

```
Append c:\sde_connect_ions\prod_hydro_spatial_default.sde\HYDRO_SPATIAL.WBHYDRO_SV
c:\sde_connect_ions\ropa_ropa.sde\ROPA.WBHYDRO TEST # #
```

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

DATE 2015-03-06 22:14:41

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx>DeleteFeatures

COMMAND ISSUED

```
DeleteFeatures c:\sde_connect_ions\ropa_ropa.sde\ROPA.WBHYDRO
```

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

DATE 2015-03-06 22:15:56

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx\Append

COMMAND ISSUED

```
Append c:\sde_connect_ions\prod_hydro_spatial_default.sde\HYDRO_SPATIAL.WBHYDRO_SV
c:\sde_connect_ions\ropa_ropa.sde\ROPA.WBHYDRO TEST # #
```

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

DATE 2015-03-13 22:13:58

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx>DeleteFeatures

COMMAND ISSUED

```
DeleteFeatures c:\sde_connect_ions\ropa_ropa.sde\ROPA.WBHYDRO
```

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

## PROCESS

DATE 2015-03-13 22:15:12

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx\Append

## COMMAND ISSUED

Append c:\sde\_connect\_ions\prod\_hydro\_spatial\_default.sde\HYDRO\_SPATIAL.WBHYDRO\_SV  
c:\sde\_connect\_ions\ropa\_ropa.sde\ROPA.WBHYDRO TEST # #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

## PROCESS

DATE 2015-03-20 22:15:48

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx&gt;DeleteFeatures

## COMMAND ISSUED

DeleteFeatures c:\sde\_connect\_ions\ropa\_ropa.sde\ROPA.WBHYDRO

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

## PROCESS

DATE 2015-03-20 22:17:09

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx\Append

## COMMAND ISSUED

Append c:\sde\_connect\_ions\prod\_hydro\_spatial\_default.sde\HYDRO\_SPATIAL.WBHYDRO\_SV  
c:\sde\_connect\_ions\ropa\_ropa.sde\ROPA.WBHYDRO TEST # #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

## PROCESS

DATE 2015-03-27 22:17:53

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx&gt;DeleteFeatures

## COMMAND ISSUED

DeleteFeatures c:\sde\_connect\_ions\ropa\_ropa.sde\ROPA.WBHYDRO

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

## PROCESS

DATE 2015-03-27 22:19:06

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx\Append

## COMMAND ISSUED

Append c:\sde\_connect\_ions\prod\_hydro\_spatial\_default.sde\HYDRO\_SPATIAL.WBHYDRO\_SV  
c:\sde\_connect\_ions\ropa\_ropa.sde\ROPA.WBHYDRO TEST # #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

## PROCESS

DATE 2015-04-03 22:14:37

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx&gt;DeleteFeatures

## COMMAND ISSUED

DeleteFeatures c:\sde\_connect\_ions\ropa\_ropa.sde\ROPA.WBHYDRO

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

## PROCESS

DATE 2015-04-03 22:15:57

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx\Append

## COMMAND ISSUED

Append c:\sde\_connect\_ions\prod\_hydro\_spatial\_default.sde\HYDRO\_SPATIAL.WBHYDRO\_SV  
c:\sde\_connect\_ions\ropa\_ropa.sde\ROPA.WBHYDRO TEST # #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

## PROCESS

DATE 2015-04-10 22:17:17

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx>DeleteFeatures

COMMAND ISSUED

Del et eFeat ur es c:\sde\_connect i ons\r opa\_r opa. sde\ ROPA. WBHYDRO

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

DATE 2015-04-10 22:18:36

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx\Append

COMMAND ISSUED

Append c:\sde\_connect i ons\pr od\_hydr o\_spat i al\_def aul t. sde\ HYDRO\_SPATI AL. WBHYDRO\_SV  
c:\sde\_connect i ons\r opa\_r opa. sde\ ROPA. WBHYDRO TEST # #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

DATE 2015-04-17 22:14:23

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx>DeleteFeatures

COMMAND ISSUED

Del et eFeat ur es c:\sde\_connect i ons\r opa\_r opa. sde\ ROPA. WBHYDRO

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

DATE 2015-04-17 22:15:40

TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx\Append

COMMAND ISSUED

Append c:\sde\_connect i ons\pr od\_hydr o\_spat i al\_def aul t. sde\ HYDRO\_SPATI AL. WBHYDRO\_SV  
c:\sde\_connect i ons\r opa\_r opa. sde\ ROPA. WBHYDRO TEST # #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

DATE 2015-04-25 06:04:06

TOOL LOCATION z:\arcgis\desktop10.2\ArcToolbox\Toolboxes\Data Management Tools.tbx\TruncateTable

COMMAND ISSUED

Tr uncat eTabl e Z:\sde\_connect i ons\r opa\_r opa. sde\ ROPA. WBHYDRO

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

DATE 2015-04-25 06:06:29

TOOL LOCATION z:\arcgis\desktop10.2\ArcToolbox\Toolboxes\Data Management Tools.tbx\Append

COMMAND ISSUED

Append Z:\sde\_connect i ons\pr od\_hydr o\_spat i al\_def aul t. sde\ HYDRO\_SPATI AL. WBHYDRO\_SV  
Z:\sde\_connect i ons\r opa\_r opa. sde\ ROPA. WBHYDRO TEST # #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

DATE 2015-05-02 06:03:13

TOOL LOCATION z:\arcgis\desktop10.2\ArcToolbox\Toolboxes\Data Management Tools.tbx\TruncateTable

COMMAND ISSUED

Tr uncat eTabl e Z:\sde\_connect i ons\r opa\_r opa. sde\ ROPA. WBHYDRO

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

DATE 2015-05-02 06:05:15

TOOL LOCATION z:\arcgis\desktop10.2\ArcToolbox\Toolboxes\Data Management Tools.tbx\Append

COMMAND ISSUED

Append Z:\sde\_connect i ons\pr od\_hydr o\_spat i al\_def aul t. sde\ HYDRO\_SPATI AL. WBHYDRO\_SV  
Z:\sde\_connect i ons\r opa\_r opa. sde\ ROPA. WBHYDRO TEST # #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

[Hide Geoprocessing history ▲](#)

## Distribution ►

### DISTRIBUTOR ►

#### ORDERING PROCESS

TERMS AND FEES none

#### INSTRUCTIONS

Data set can be downloaded free of charge from the DNR GIS Data Center web page [http://www.dnr.wa.gov/BusinessPermits/Topics/Data/Pages/gis\\_data\\_center.aspx](http://www.dnr.wa.gov/BusinessPermits/Topics/Data/Pages/gis_data_center.aspx), click on Available GIS Data.

#### TRANSFER OPTIONS

##### ONLINE SOURCE

**DESCRIPTION** Within DNR the HYDRO data sets are refreshed weekly. The data sets are available on ROPA as WCHYDRO, WBHYDRO, and WSHYDRO feature classes, on /database/covers as WC and WBWS ARC/INFO arc/node topology statewide coverages, and on /database/wrias as arc/node coverages tiled by WRIA. Externally, a zip file containing ARC/INFO export files (.e00) of the WC and WBWS coverages, and metadata is available for download. Data is available for the entire state and/or clipped to each county boundary. Data set can be downloaded free of charge from the DNR GIS Data Center web page [http://www.dnr.wa.gov/BusinessPermits/Topics/Data/Pages/gis\\_data\\_center.aspx](http://www.dnr.wa.gov/BusinessPermits/Topics/Data/Pages/gis_data_center.aspx), click on Available GIS Data.

[Hide Distributor ▲](#)

### DISTRIBUTION FORMAT

\* NAME SDE Feature Class

[Hide Distribution ▲](#)

## Fields ►

### DETAILS FOR OBJECT ROPA.WBHYDRO ►

\* TYPE Feature Class

\* ROW COUNT 71989

#### FIELD OBJECTID ►

\* ALIAS OBJECTID

\* DATA TYPE OID

\* WIDTH 4

\* PRECISION 10

\* SCALE 0

#### FIELD DESCRIPTION

Internal feature number.

#### DESCRIPTION SOURCE

ESRI

**DESCRIPTION OF VALUES** Sequential unique whole numbers that are automatically generated.

[Hide Field OBJECTID ▲](#)

#### FIELD WB\_ID ►

\* ALIAS WB\_ID

\* DATA TYPE Integer

\* WIDTH 4

\* PRECISION 8

\* SCALE 0

#### FIELD DESCRIPTION

A number that is unique and persistent for each record.

[Hide Field WB\\_ID ▲](#)

**FIELD SHAPE ►**

- \* ALIAS SHAPE
- \* DATA TYPE Geometry
- \* WIDTH 4
- \* PRECISION 0
- \* SCALE 0

**FIELD DESCRIPTION**

Feature geometry.

**DESCRIPTION SOURCE**

ESRI

**DESCRIPTION OF VALUES** Coordinates defining the features.

[Hide Field SHAPE ▲](#)

**FIELD WB\_LLID\_NR ►**

- \* ALIAS WB\_LLID\_NR
- \* DATA TYPE Double
- \* WIDTH 8
- \* PRECISION 13
- \* SCALE 0

**FIELD DESCRIPTION**

Water body longitude/latitude identifier number (LLID). All polygonal features are assigned an LLID. These include water bodies, islands, and dams, etc. The LLID has 13 characters, is based on the position of the polygon label point, and is created by concatenating the decimal degree values (to four places of precision) of the coordinates (minus the decimal points). LLID numbers are generally unique across WBHYDRO. A tiny percentage (0.06% on July 11, 2006) of WB\_LLID\_NRs have a frequency greater than 1. These records represent features made up of more than one polygon. For example, a stream may be made up of several polygons connected by a single arc watercourse; the polygons will all have identical WB\_LLID\_NRs. There is no valid default value for this field and it must be populated.

[Hide Field WB\\_LLID\\_NR ▲](#)

**FIELD WB\_CART\_FTR\_LABEL\_NM ►**

- \* ALIAS WB\_CART\_FTR\_LABEL\_NM
- \* DATA TYPE String
- \* WIDTH 12
- \* PRECISION 0
- \* SCALE 0

**FIELD DESCRIPTION**

Water body cartographic feature label. The label used to describe the cartographic feature type that the water body polygon represents. This represents feature codes developed initially by the USGS and used on the DLG's.

**LIST OF VALUES**

VALUE Alkali flat  
DESCRIPTION Alkali flat

VALUE Reservoir  
DESCRIPTION Reservoir

VALUE Glacier  
DESCRIPTION Glacier or permanent snowfield

VALUE Inundation  
DESCRIPTION Inundation area

VALUE hatchery  
DESCRIPTION Fish hatchery or farm

VALUE Industrial  
DESCRIPTION Industrial water impoundment

VALUE Sewage pond  
DESCRIPTION Sewage pond or filtration bed

VALUE Tailing pond  
DESCRIPTION Tailings pond

VALUE Marsh  
DESCRIPTION Marsh, wet area, swamp, bog. These generally originated as swamps and marshes scanned from the USGS 1:24,000 topographic maps. Wet areas are not classified by the WAC 222-16-035 wetland typing system; they have no regulatory significance.

VALUE Bog  
DESCRIPTION Cranberry bog

VALUE Flats  
DESCRIPTION Flats (tidal, mud, sand, gravel)

VALUE Bay/estuary  
DESCRIPTION Bay, estuary, gulf, ocean or sea

VALUE Rapids  
DESCRIPTION Rapids

VALUE Falls  
DESCRIPTION Water Falls

VALUE Flooded pit  
DESCRIPTION Gravel pit or quarry filled with water

VALUE Dam/weir  
DESCRIPTION Dam or weir

VALUE Canal/locks  
DESCRIPTION Canal lock or sluice gate

VALUE Spillway  
DESCRIPTION Spillway

VALUE Exposed rock  
DESCRIPTION Exposed rock

VALUE Stream/river  
DESCRIPTION Stream or river

VALUE Ditch/canal  
DESCRIPTION Ditch or canal

VALUE Aqueduct  
DESCRIPTION Aqueduct

VALUE Penstock  
DESCRIPTION Penstock

VALUE Siphon  
DESCRIPTION Siphon

VALUE Channel  
DESCRIPTION Channel in water area

VALUE Wash  
DESCRIPTION Wash or ephemeral drain

VALUE Lake/pond  
DESCRIPTION Lake or pond

VALUE Sand/gravel  
DESCRIPTION Sand or gravel in open water

VALUE Fish ladder  
DESCRIPTION Fish ladder

VALUE Pier/jetty  
DESCRIPTION Pier or jetty

VALUE Island  
DESCRIPTION Island

VALUE Unknown  
DESCRIPTION Unknown or Unclassified

*Hide Field WB\_CART\_FTR\_LABEL\_NM ▲*

FIELD WB\_CART\_FTR\_CD ►

- \* ALIAS WB\_CART\_FTR\_CD
- \* DATA TYPE SmallInteger
- \* WIDTH 2
- \* PRECISION 3
- \* SCALE 0

FIELD DESCRIPTION

Water body cartographic feature code. The code used to describe the cartographic feature type that the water body polygon represents. This represents feature codes developed initially by the USGS and used on the DLG's.

LIST OF VALUES

VALUE 100  
DESCRIPTION Alkali flat

VALUE 101  
DESCRIPTION Reservoir

VALUE 103  
DESCRIPTION Glacier or permanent snowfield

VALUE 105  
DESCRIPTION Inundation area

VALUE 106  
DESCRIPTION Fish hatchery or farm

VALUE 107  
DESCRIPTION Industrial water impoundment

VALUE 109  
DESCRIPTION Sewage disposal pond or filtration bed

VALUE 110

DESCRIPTION Tailings pond

VALUE 111

DESCRIPTION Marsh, wet area, swamp, bog. These generally originated as swamps and marshes scanned from the USGS 1:24,000 topographic maps. Wet areas are not classified by the WAC 222-16-035 wetland typing system; they have no regulatory significance.

VALUE 114

DESCRIPTION Cranberry bog

VALUE 115

DESCRIPTION Flats (tidal, mud, sand, gravel)

VALUE 116

DESCRIPTION Bay, estuary, gulf, ocean or sea

VALUE 117

DESCRIPTION Shoal

VALUE 400

DESCRIPTION Rapids

VALUE 401

DESCRIPTION Water Falls

VALUE 402

DESCRIPTION Gravel pit or quarry filled with water

VALUE 406

DESCRIPTION Dam or weir

VALUE 407

DESCRIPTION Canal lock or sluice gate

VALUE 408

DESCRIPTION Spillway

VALUE 410

DESCRIPTION Exposed rock

VALUE 412

DESCRIPTION Stream or river

VALUE 414

DESCRIPTION Ditch or canal

VALUE 415

DESCRIPTION Aqueduct

VALUE 417

DESCRIPTION Penstock

VALUE 418

DESCRIPTION Siphon

VALUE 419

DESCRIPTION Channel in water area

VALUE 420

DESCRIPTION Wash or ephemeral drain

VALUE 421



DESCRIPTION Lake or pond

VALUE 422

DESCRIPTION Reef

VALUE 423

DESCRIPTION Sand or gravel in open water

VALUE 425

DESCRIPTION Fish ladder

VALUE 466

DESCRIPTION Pier, jetty, breakwater, dock, wharf or causeway

VALUE 902

DESCRIPTION Island

VALUE 999

DESCRIPTION Unknown or Unclassified

*Hide Field* WB\_CART\_FTR\_CD ▲

FIELD WB\_HYDR\_FTR\_LABEL\_NM ►

\* ALIAS WB\_HYDR\_FTR\_LABEL\_NM

\* DATA TYPE String

\* WIDTH 12

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Water body hydrographic feature label. The label used to describe the hydrographic feature type that the water body polygon represents.

LIST OF VALUES

VALUE Ditch

DESCRIPTION Ditches, canals, flumes

VALUE Bay

DESCRIPTION Bays, estuaries, and oceans

VALUE Glacier

DESCRIPTION Glaciers or permanent snowfields

VALUE Impoundment

DESCRIPTION Impoundments

VALUE Island

DESCRIPTION Islands

VALUE Imp wet area

DESCRIPTION Impounded wet areas

VALUE Lake

DESCRIPTION Lakes and ponds

VALUE Pipeline

DESCRIPTION Pipelines and water conveyance structures

VALUE Side channel

DESCRIPTION Side channels to rivers or stream

VALUE Stream

DESCRIPTION Streams and rivers

VALUE Unk/Unclass

DESCRIPTION Unknown or Unclassified

VALUE Wet area

DESCRIPTION Wet areas

*Hide Field WB\_HYDR\_FTR\_LABEL\_NM ▲*

FIELD WB\_GNIS\_NM ►

\* ALIAS WB\_GNIS\_NM

\* DATA TYPE String

\* WIDTH 50

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Water body GNIS (Geographic Names Information System) name. The name of the water body as contained within the USGS GNIS database (<http://geonames.usgs.gov/domestic/index.html>). Not all features will have a GNIS name and number, but all features with GNIS names will have GNIS numbers and vice versa. Names entered into GNIS have been approved by the US Board on Geographic Names. When the Washington State Board on Geographic Names approves a name, the proposal is forwarded on to the US Board for their review. There are rare cases where the WA and US Board disagree, and in that case, the Washington name is not entered into GNIS. DNR is aware of one such disagreement: Crater Glacier (US Board) vs. Tulutson Glacier (WA Board).

*Hide Field WB\_GNIS\_NM ▲*

FIELD WB\_PERIOD\_LABEL\_NM ►

\* ALIAS WB\_PERIOD\_LABEL\_NM

\* DATA TYPE String

\* WIDTH 12

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Water body periodicity label. This is a classification of a water body in terms of the seasonal behavior of the feature or in terms of its surface flow.

LIST OF VALUES

VALUE Dry land

DESCRIPTION Dry land-natural or man-made

VALUE Ephemeral

DESCRIPTION Ephemeral. Water bodies that exist only as a result of storm precipitation.

VALUE Intermittent

DESCRIPTION Intermittent or seasonal. Water bodies that are dry during certain times of the year.

VALUE Perennial

DESCRIPTION Perennial. Water bodies that essentially exist year round.

VALUE Unknown

DESCRIPTION Unknown or unclassified. Used when condition information is unknown or unclassified.

*Hide Field WB\_PERIOD\_LABEL\_NM ▲*

FIELD FP\_WTRTY\_CD ►

\* ALIAS FP\_WTRTY\_CD

\* DATA TYPE String  
 \* WIDTH 1  
 \* PRECISION 0  
 \* SCALE 0

## FIELD DESCRIPTION

DNR Forest Practices Water Type Code. Features in the Water Bodies layer were not part of the modeling process and are classified according to WAC 222-16-031. Type S water bodies have an area of at least 20 acres in size. Type F water bodies are less than 20 acres but larger than 0.5 acres. Water bodies less than 0.5 acres are coded "N" unless there is a type S or F stream entering and exiting it. Those water bodies will be coded according to the stream type. Field verified information may override designations based on acreage.

## LIST OF VALUES

VALUE S

DESCRIPTION Designated Shoreline of the State as defined in WAC 222-16-031 (1).

VALUE F

DESCRIPTION Fish habitat/use as defined in WAC 222-16-031 (2)(3)

VALUE N

DESCRIPTION Non-fish habitat as defined in WAC 222-16-031 (4) (5)

VALUE U

DESCRIPTION Unknown, unclassified, untyped, un-modeled, not field verified, or no water type assigned hydrographic feature. Feature may or may not exist on the ground. Not a water type; used as a placeholder in the database.

VALUE X

DESCRIPTION Mapped feature having no water type designation (e.g. pipeline, wet area). Non-typed per WAC 222-16. A mapped feature not meeting any definition for typed water. Feature exists on the ground. Not a water type; used as a placeholder in the database. (e.g. pipeline, glaciers, and wet areas associated with an 'N' stream, industrial water impoundments, sewage disposal ponds, and tailing ponds).

[Hide Field FP\\_WTRTY\\_CD ▲](#)

## FIELD FP\_WTRTY\_EDIT\_DT ►

\* ALIAS FP\_WTRTY\_EDIT\_DT  
 \* DATA TYPE Date  
 \* WIDTH 36  
 \* PRECISION 0  
 \* SCALE 0

## FIELD DESCRIPTION

Forest Practices water type edit date. Internal DNR date field used to capture when an individual DNR employee last edited the database record. Used in conjunction with the new habitat based water typing system.

[Hide Field FP\\_WTRTY\\_EDIT\\_DT ▲](#)

## FIELD SL\_WTRTY\_CD ►

\* ALIAS SL\_WTRTY\_CD  
 \* DATA TYPE SmallInteger  
 \* WIDTH 2  
 \* PRECISION 1  
 \* SCALE 0

## FIELD DESCRIPTION

State Lands Water Type Code. These water type classifications are used to support the DNR State Trust Lands HCP (Habitat Conservation Plan), effective September 1997.

## LIST OF VALUES

VALUE 1

**DESCRIPTION** Type 1 water as defined by the DNR State Lands HCP. All waters, within their ordinary high-water mark, as inventoried as "shorelines of the state" under chapter 90.58 RCW.

**VALUE** 2

**DESCRIPTION** Type 2 water as defined by the DNR State Lands HCP. Segments of natural waters which are not classified as Type 1 Water and have a high fish, wildlife or human use.

**VALUE** 3

**DESCRIPTION** Type 3 water as defined by the DNR State Lands HCP. Segments of natural waters which are not classified as Type 1 or Type 2 Waters and have a moderate to slight fish, wildlife, or human use.

**VALUE** 4

**DESCRIPTION** Type 4 water as defined by the DNR State Lands HCP. All segments of natural waters within the bankfull width of defined channels that are perennial nonfish habitat streams.

**VALUE** 5

**DESCRIPTION** Type 5 water as defined by the DNR State Lands HCP. All segments of natural waters within the bankfull width of defined channels that are not Type 1, 2, 3, or 4 Waters.

**VALUE** 9

**DESCRIPTION** Unclassified water feature.

*Hide Field SL\_WTRTY\_CD ▲*

**FIELD SL\_WTRTY\_EDIT\_DT ►**

\* **ALIAS** SL\_WTRTY\_EDIT\_DT

\* **DATA TYPE** Date

\* **WIDTH** 36

\* **PRECISION** 0

\* **SCALE** 0

**FIELD DESCRIPTION**

DNR State lands water type edit date. Internal DNR date field used to capture when an individual DNR employee made a tabular edit to the SL\_WTRTY\_CD as directed by a SL WTMF (DNR State Lands Water Type Modification Form used to support the DNR State Trust Lands HCP (Habitat Conservation Plan, September 1997)).

*Hide Field SL\_WTRTY\_EDIT\_DT ▲*

**FIELD FP\_WTRTY\_NM ►**

\* **ALIAS** FP\_WTRTY\_NM

\* **DATA TYPE** String

\* **WIDTH** 50

\* **PRECISION** 0

\* **SCALE** 0

**FIELD DESCRIPTION**

DNR Forest Practices water type name. Features in the Water Bodies layer were not part of the modeling process and are classified according to WAC 222-16-031. Type S water bodies have an area of at least 20 acres in size. Type F water bodies are less than 20 acres but larger than 0.5 acres. Water bodies less than 0.5 acres are coded "N" unless there is a type S or F stream entering and exiting it. Those water bodies will be coded according to the stream type. Field verified information may override designations based on acreage.

**LIST OF VALUES**

**VALUE** Shorelines of the State

**DESCRIPTION** Designated Shoreline of the State as defined in WAC 222-16-031 (1)

**VALUE** Fish

**DESCRIPTION** Fish habitat/use as defined in WAC 222-16-031 (2)(3)

VALUE Non-fish

DESCRIPTION Non-fish habitat as defined in WAC 222-16-031 (4) (5)

VALUE Unknown

DESCRIPTION Unknown, untyped, un-modeled hydrographic feature.

VALUE Waters with no type designation

DESCRIPTION Mapped feature having no water type designation (e.g. pipeline, wet area)

[Hide Field FP\\_WTRTY\\_NM ▲](#)

FIELD FP\_WTRTY\_APPR\_DT ►

\* ALIAS FP\_WTRTY\_APPR\_DT

\* DATA TYPE Date

\* WIDTH 36

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Forest Practices water type approval date. The date of approval by DNR Forest Practices of the Water Type Modification Form (WTMF) associated with the water body polygon. Used only in conjunction with the Forest Practices Water Typing System.

[Hide Field FP\\_WTRTY\\_APPR\\_DT ▲](#)

FIELD FP\_VER\_CD ►

\* ALIAS FP\_VER\_CD

\* DATA TYPE String

\* WIDTH 1

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Forest Practices verification code. Identifies the water typing survey method used when assigning a water type to a stream segment. All such surveys are documented by an approved water type modification form (WTMF). For use only with the Forest Practices water typing system. See FP\_WTRTY\_SRC\_DESC for source of water types not assigned by a survey method. FP\_VER\_CD codes 'b', 'p', or 'n' only apply to streams surveyed since 20050301.

LIST OF VALUES

VALUE P

DESCRIPTION Water type based only upon physical criteria and characteristics of the stream. This means only the physical characteristics specifically listed in WAC 222-16-031 (3) (b). Waters meeting these listed characteristics are presumed to have fish use. FP\_VER\_CD codes 'b', 'p', or 'n' only apply to streams surveyed since 20050301.

VALUE B

DESCRIPTION Water type based upon biological assessment such as a protocol survey. This may be one or more of the following: 1. fish observed, 2. the survey followed the Guidelines for Determining Fish Use (Board Manual, Section 13, Part 4), ie. 'protocol', 3. the survey followed the Guidelines for Determining Fish Use (Board Manual, Section 13, Part 6), ie. an 'alternative protocol' that was documented prior to the survey was used, 4. as part of an ID Team, a WDFW or tribal biologist agreement with the proposal is documented, 5. If the stream does not meet the minimum pool requirements for a protocol survey (Board Manual, Section 13, Part 4), and this is documented, then the survey is following protocol and is considered a 'biological assessment.' FP\_VER\_CD codes 'b', 'p', or 'n' only apply to streams surveyed since 20050301.

VALUE N

DESCRIPTION Water type not verified by either physical criteria or biological assessment. FP\_VER\_CD codes 'b', 'p', or 'n' only apply to streams surveyed since 20050301.

VALUE U

DESCRIPTION Method of water type determination assessment is unknown.

[Hide Field FP\\_VER\\_CD ▲](#)

FIELD FP\_VER\_LABEL\_NM ►

\* ALIAS FP\_VER\_LABEL\_NM

\* DATA TYPE String

\* WIDTH 12

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Forest Practices verification label. Identifies the water typing survey method used when assigning a water type to a stream segment. All such surveys are documented by an approved water type modification form (WTMF). For use only with the Forest Practices water typing system. See FP\_WTRTY\_SRC\_DESC for source of water types not assigned by a survey method. FP\_VER\_CD codes 'b', 'p', or 'n' only apply to streams surveyed since 20050301.

LIST OF VALUES

VALUE Physical

DESCRIPTION Water type based only upon physical criteria and characteristics of the stream. This means only the physical characteristics specifically listed in WAC 222-16-031 (3) (b). Waters meeting these listed characteristics are presumed to have fish use. FP\_VER\_CD codes 'b', 'p', or 'n' only apply to streams surveyed since 20050301.

VALUE Biological

DESCRIPTION Water type based upon biological assessment such as a protocol survey. This may be one or more of the following: 1. fish observed, 2. the survey followed the Guidelines for Determining Fish Use (Board Manual, Section 13, Part 4), ie. 'protocol', 3. the survey followed the Guidelines for Determining Fish Use (Board Manual, Section 13, Part 6), ie. an 'alternative protocol' that was documented prior to the survey was used, 4. as part of an ID Team, a WDFW or tribal biologist agreement with the proposal is documented, 5. If the stream does not meet the minimum pool requirements for a protocol survey (Board Manual, Section 13, Part 4), and this is documented, then the survey is following protocol and is considered a 'biological assessment.' FP\_VER\_CD codes 'b', 'p', or 'n' only apply to streams surveyed since 20050301.

VALUE Not Verified

DESCRIPTION Water type not verified by either physical criteria or biological assessment. FP\_VER\_CD codes 'b', 'p', or 'n' only apply to streams surveyed since 20050301.

VALUE Unknown

DESCRIPTION Method of water type determination assessment is unknown.

[Hide Field FP\\_VER\\_LABEL\\_NM ▲](#)

FIELD WB\_HYDR\_FTR\_CD ►

\* ALIAS WB\_HYDR\_FTR\_CD

\* DATA TYPE String

\* WIDTH 2

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Water body hydrographic feature code. The code used to describe the hydrographic feature type that the water body polygon represents.

LIST OF VALUES

VALUE DC

DESCRIPTION Ditches, canals, flumes

VALUE ES  
DESCRIPTION Bays, estuaries, and oceans

VALUE GL  
DESCRIPTION Glaciers or permanent snowfields

VALUE IM  
DESCRIPTION Impoundments

VALUE IS  
DESCRIPTION Islands

VALUE IW  
DESCRIPTION Impounded wet areas

VALUE LA  
DESCRIPTION Lakes and ponds

VALUE PP  
DESCRIPTION Pipelines and water conveyance structures

VALUE SC  
DESCRIPTION Side channels to rivers or stream

VALUE ST  
DESCRIPTION Streams and rivers

VALUE UN  
DESCRIPTION Unknown or unclassified

VALUE WT  
DESCRIPTION Wet Areas. These generally originated as swamps and marshes scanned from the USGS 1:24,000 topographic maps. Wet areas are not classified by the WAC 222-16-035 wetland typing system; they have no regulatory significance.

[Hide Field WB\\_HYDR\\_FTR\\_CD ▲](#)

FIELD [FTR\\_MOD\\_CD ►](#)

- \* ALIAS FTR\_MOD\_CD
- \* DATA TYPE String
- \* WIDTH 3
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION

Feature modification code. A description of the type of edit made to the database.

LIST OF VALUES

VALUE ADD

DESCRIPTION Addition of spatial feature. A value describing features added to the database. This is also the default for features that existed prior to model implementation.

VALUE DEL

DESCRIPTION Deletion of existing spatial feature. A value describing features deleted from the database or for features marked for deletion, but retained in the database for connectivity. Documents the historical ID, which maybe referenced in an orphaned event row that will have no matching spatial record. (Code value only valid with PNW Hydrography Framework Data Model in ESRI Dynamic Segmentation format)

VALUE UPD

DESCRIPTION Update of existing spatial feature. A value describing features whose water type was updated or confirmed.

[Hide Field FTR\\_MOD\\_CD ▲](#)

FIELD [FTR\\_MOD\\_LABEL\\_NM ▶](#)

- \* ALIAS FTR\_MOD\_LABEL\_NM
- \* DATA TYPE String
- \* WIDTH 12
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION

Feature modification code. A description of the type of edit made to the database.

LIST OF VALUES

VALUE Addition

DESCRIPTION Addition of spatial feature. A value describing features added to the database. This is also the default for features that existed prior to model implementation.

VALUE Deletion

DESCRIPTION Deletion of existing spatial feature. A value describing features deleted from the database or for features marked for deletion, but retained in the database for connectivity. Documents the historical ID, which maybe referenced in an orphaned event row that will have no matching spatial record. (Code value only valid with PNW Hydrography Framework Data Model in ESRI Dynamic Segmentation format)

VALUE Update

DESCRIPTION Update of existing spatial feature. A value describing features whose water type was updated or confirmed.

[Hide Field FTR\\_MOD\\_LABEL\\_NM ▲](#)

FIELD [FTR\\_INPUT\\_CD ▶](#)

- \* ALIAS FTR\_INPUT\_CD
- \* DATA TYPE SmallInteger
- \* WIDTH 2
- \* PRECISION 2
- \* SCALE 0

FIELD DESCRIPTION

Feature input code. The manner in which the hydrography watercourse data is entered or updated in the spatial database. These codes can be found in the associated lookup table.

LIST OF VALUES

VALUE 1

DESCRIPTION Automatic via computer software

VALUE 2

DESCRIPTION Scanning

VALUE 3

DESCRIPTION Tablet digitizing

VALUE 4

DESCRIPTION Digital spatial or coordinate file

VALUE 5

DESCRIPTION Automatic line tracing

VALUE 6

DESCRIPTION Heads-up digitizing

VALUE 99



DESCRIPTION Unknown or unspecified map feature input method

*Hide Field FTR\_INPUT\_CD ▲*

FIELD FTR\_INPUT\_LABEL\_NM ►

\* ALIAS FTR\_INPUT\_LABEL\_NM  
 \* DATA TYPE String  
 \* WIDTH 12  
 \* PRECISION 0  
 \* SCALE 0

FIELD DESCRIPTION

Feature input label. The manner in which the hydrography watercourse data is entered or updated in the spatial database. These codes can be found in the associated lookup table.

LIST OF VALUES

VALUE Automatic  
 DESCRIPTION Automatic via computer software

VALUE Scan  
 DESCRIPTION Scanning

VALUE Digitize  
 DESCRIPTION Tablet digitizing

VALUE Coord File  
 DESCRIPTION Digital spatial or coordinate file

VALUE Auto  
 DESCRIPTION Automatic line tracing

VALUE Heads-up  
 DESCRIPTION Heads-up or on screen digitizing

VALUE Unknown  
 DESCRIPTION Unknown or unspecified map feature input method

*Hide Field FTR\_INPUT\_LABEL\_NM ▲*

FIELD FTR\_INTRP\_CD ►

\* ALIAS FTR\_INTRP\_CD  
 \* DATA TYPE SmallInteger  
 \* WIDTH 2  
 \* PRECISION 2  
 \* SCALE 0

FIELD DESCRIPTION

Feature interpretation code. The methodology used to compose the hydrography watercourse information and how it was derived prior to data entry into the spatial coverage

LIST OF VALUES

VALUE 1  
 DESCRIPTION Photogrammetric interpretation

VALUE 2  
 DESCRIPTION Global Position System (GPS)

VALUE 3  
 DESCRIPTION Photointerpretation

VALUE 4  
 DESCRIPTION Interpretation of streams from contour crenulation

VALUE 5  
DESCRIPTION Surface flow modeling

VALUE 6  
DESCRIPTION Transect along a stream channel

VALUE 7  
DESCRIPTION Existing line work on source map

VALUE 8  
DESCRIPTION Stream not directly observable so stream location is estimated

VALUE 9  
DESCRIPTION Combination of 3,4,5 and sometimes 8

VALUE 99  
DESCRIPTION Unspecified or Unknown

Hide Field FTR\_INTRP\_CD ▲

FIELD FTR\_INTRP\_LABEL\_NM ►

\* ALIAS FTR\_INTRP\_LABEL\_NM  
\* DATA TYPE String  
\* WIDTH 12  
\* PRECISION 0  
\* SCALE 0

FIELD DESCRIPTION

Feature interpretation label. The methodology used to compose the hydrography watercourse information and how it was derived prior to data entry into the spatial coverage

LIST OF VALUES

VALUE Photogram  
DESCRIPTION Photogrammetric interpretation

VALUE GPS  
DESCRIPTION Global Position System (GPS)

VALUE Photos  
DESCRIPTION Photointerpretation

VALUE Crenulation  
DESCRIPTION Interpretation of streams from contour crenulation

VALUE Modeling  
DESCRIPTION Surface flow modeling

VALUE Transect  
DESCRIPTION Transect along a stream channel

VALUE Source map  
DESCRIPTION Existing line work on source map

VALUE Best guess  
DESCRIPTION Stream not directly observable so stream location is estimated

VALUE Combination  
DESCRIPTION Combination of 3,4,5 and sometimes 8

VALUE Unspecified  
DESCRIPTION Unspecified or Unknown

Hide Field FTR\_INTRP\_LABEL\_NM ▲

FIELD FTR\_SRC\_CD ►

- \* ALIAS FTR\_SRC\_CD
- \* DATA TYPE SmallInteger
- \* WIDTH 2
- \* PRECISION 2
- \* SCALE 0

FIELD DESCRIPTION

Feature source code. The compilation map or image source used when adding or updating hydrography data.

LIST OF VALUES

- VALUE 1  
DESCRIPTION USGS Topographic Map
- VALUE 2  
DESCRIPTION Orthophotography
- VALUE 3  
DESCRIPTION Aerial Photograph
- VALUE 4  
DESCRIPTION Multi-Spectral Satellite Imagery
- VALUE 5  
DESCRIPTION Field Survey of on the ground observation
- VALUE 6  
DESCRIPTION County or City Planning Map
- VALUE 7  
DESCRIPTION Field Map
- VALUE 8  
DESCRIPTION Digital Elevation Model (DEM)
- VALUE 9  
DESCRIPTION Radar Imagery
- VALUE 10  
DESCRIPTION Laser Imagery
- VALUE 11  
DESCRIPTION Cartographic Feature File (CFF)
- VALUE 12  
DESCRIPTION National Wetlands Inventory (NWI) Map
- VALUE 13  
DESCRIPTION Imagery - Unspecified Source
- VALUE 15  
DESCRIPTION Combination of Lidar/Photo
- VALUE 16  
DESCRIPTION NED/Photo
- VALUE 17  
DESCRIPTION Intuitive Interpretation

VALUE 99  
 DESCRIPTION Unknown or Unclassified

[Hide Field FTR\\_SRC\\_CD ▲](#)

FIELD [FTR\\_SRC\\_LABEL\\_NM ▶](#)

\* ALIAS FTR\_SRC\_LABEL\_NM  
 \* DATA TYPE String  
 \* WIDTH 12  
 \* PRECISION 0  
 \* SCALE 0

FIELD DESCRIPTION

Feature source label. The compilation map or image source used when adding or updating hydrography data.

LIST OF VALUES

VALUE USGS Map  
 DESCRIPTION USGS Topographic Map

VALUE Orthophoto  
 DESCRIPTION Orthophotography

VALUE Aerial photo  
 DESCRIPTION Aerial Photograph

VALUE MSS Imagery  
 DESCRIPTION Multi-Spectral Satellite Imagery

VALUE Field Survey  
 DESCRIPTION Field Survey of on the ground observation

VALUE County/City  
 DESCRIPTION County or City Planning Map

VALUE Field Map  
 DESCRIPTION Field Map

VALUE DEM  
 DESCRIPTION Digital Elevation Model (DEM)

VALUE Radar Image  
 DESCRIPTION Radar Imagery

VALUE Laser Image  
 DESCRIPTION Laser Imagery

VALUE CFF  
 DESCRIPTION Cartographic Feature File (CFF)

VALUE NWI Map  
 DESCRIPTION National Wetlands Inventory (NWI) Map

VALUE Imagery  
 DESCRIPTION Imagery - Unspecified Source

VALUE Combination  
 DESCRIPTION Combination of Lidar/Photo

VALUE NED/Photo  
 DESCRIPTION NED/Photo

VALUE Interpret  
DESCRIPTION Intuitive Interpretation

VALUE Unknown  
DESCRIPTION Unknown or Unclassified

*Hide Field FTR\_SRC\_LABEL\_NM ▲*

FIELD FTR\_SRC\_DT ►

\* ALIAS FTR\_SRC\_DT  
\* DATA TYPE Date  
\* WIDTH 36  
\* PRECISION 0  
\* SCALE 0

FIELD DESCRIPTION

Feature source date. The date of the compilation map or image source used when adding or updating hydrography data. January 1, 1753 is used when source date is unknown or unavailable. If the source year is known, but month and date are unknown then January 1 is used as a default.

*Hide Field FTR\_SRC\_DT ▲*

FIELD FTR\_ORG\_CD ►

\* ALIAS FTR\_ORG\_CD  
\* DATA TYPE String  
\* WIDTH 12  
\* PRECISION 0  
\* SCALE 0

FIELD DESCRIPTION

Feature organization code. The organization that compiled, entered, updated or deleted the hydrography watercourse data. This list will grow as new organizations begin to add or update information and are certified by the clearinghouse. Contact the Clearinghouse Manager will maintain a list of organizations. All additions or corrections should be submitted to the Clearinghouse Manager.

LIST OF VALUES

VALUE BCMELP  
DESCRIPTION British Columbia Ministry of Environment, Lands and Parks

VALUE CoClalWa  
DESCRIPTION Clallam County, WA

VALUE CoClrkWa  
DESCRIPTION Clark County, WA

VALUE CoKingWa  
DESCRIPTION King County, WA

VALUE CoPierWa  
DESCRIPTION Pierce County, WA

VALUE CoSnohWa  
DESCRIPTION Snohomish County, WA

VALUE CoSpokWa  
DESCRIPTION Spokane County, WA

VALUE CoThursWa  
DESCRIPTION Thurston County, WA

VALUE CoYakWa  
DESCRIPTION Yakima County, WA

VALUE CtyOlyWa  
DESCRIPTION City of Olympia, WA

VALUE CtySeaWa  
DESCRIPTION City of Seattle, WA

VALUE CtyVanWa  
DESCRIPTION City of Vancouver, WA

VALUE IRICC  
DESCRIPTION Intergovernmental Resource Information Coordinating Council

VALUE LvwFbr  
DESCRIPTION Longview Fiber Company

VALUE NMFS  
DESCRIPTION National Marine Fisheries Service

VALUE NRCS  
DESCRIPTION Natural Resources Conservation Service

VALUE NWIFC  
DESCRIPTION Northwest Indian Fisheries Commission

VALUE OrDEQ  
DESCRIPTION OR Dept. of Environmental Quality

VALUE PSRC  
DESCRIPTION Puget Sound Regional Council

VALUE Raynr  
DESCRIPTION Rayonier Timber Company

VALUE Sewall  
DESCRIPTION James Sewall & Company

VALUE Smpsn  
DESCRIPTION Simpson Timber Company

VALUE USACE  
DESCRIPTION U.S. Army Corps of Engineers

VALUE USBLM  
DESCRIPTION U.S. Bureau of Land Management

VALUE USBOR  
DESCRIPTION U.S. Bureau of Reclamation

VALUE USBPA  
DESCRIPTION U.S. Bonneville Power Administration

VALUE USEPA  
DESCRIPTION U.S. Environmental Protection Agency

VALUE USEPA-r10  
DESCRIPTION U.S. Environmental Protection Agency - Region 10

VALUE USFS

DESCRIPTION U.S. Forest Service

VALUE USFS-Oly

DESCRIPTION U.S. Forest Service - Olympic National Forest

VALUE USFWS

DESCRIPTION U.S. Fish and Wildlife Service

VALUE USGS

DESCRIPTION U.S. Geological Survey

VALUE USGS-NMD

DESCRIPTION U.S. Geological Survey - National Mapping Division

VALUE USNPS

DESCRIPTION U.S. National Park Service

VALUE WaDFW

DESCRIPTION Washington Department of Fish and Wildlife

VALUE WaDNR

DESCRIPTION Washington State Department of Natural Resources

VALUE WaDOT

DESCRIPTION Washington Department of Transportation

VALUE WaECY

DESCRIPTION Washington Department of Ecology

VALUE Weyhsr

DESCRIPTION Weyerhaeuser Timber Company

VALUE WildFishCons

DESCRIPTION Wild Fish Conservancy

*Hide Field FTR\_ORG\_CD ▲*

FIELD FTR\_SRCSCALE\_CD ►

\* ALIAS FTR\_SRCSCALE\_CD

\* DATA TYPE Integer

\* WIDTH 4

\* PRECISION 5

\* SCALE 0

FIELD DESCRIPTION

Feature source scale code. Describes the scale denominator of the map or image source for the hydrography watercourse data additions or updates in the database. Exact scale can be input. The density of hydrography features displayed will vary by the base map scale. A default scale of "0" should be used when the source scale is unknown. Example: 24000.

LIST OF VALUES

VALUE 0

DESCRIPTION Scale of data source is unknown

VALUE 4800

DESCRIPTION Scale of data source is 1:4,800

VALUE 12000

DESCRIPTION Scale of data source is 1:12,000

VALUE 24000

DESCRIPTION Scale of data source is 1:24,000

[Hide Field FTR\\_SRCSCALE\\_CD ▲](#)

FIELD [WB\\_GNIS\\_NR ►](#)

- \* ALIAS WB\_GNIS\_NR
- \* DATA TYPE Integer
- \* WIDTH 4
- \* PRECISION 7
- \* SCALE 0

FIELD DESCRIPTION

Water body GNIS (Geographic Names Information System) number. The unique identifier number assigned to each named feature in the USGS GNIS database (<http://geonames.usgs.gov/domestic/index.html>). This number is used to insert and/or update water body names stored in the framework hydrography database. Not all features will have a GNIS name and number, but all features with GNIS names will have GNIS numbers and vice versa.

[Hide Field WB\\_GNIS\\_NR ▲](#)

FIELD [SL\\_WTRTY\\_LABEL\\_NM ►](#)

- \* ALIAS SL\_WTRTY\_LABEL\_NM
- \* DATA TYPE String
- \* WIDTH 12
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION

State Lands Water Type label. These water type classifications are used to support the DNR State Trust Lands HCP (Habitat Conservation Plan), effective September 1997.

LIST OF VALUES

VALUE Type 1

DESCRIPTION Type 1 water as defined by the DNR State Lands HCP. All waters, within their ordinary high-water mark, as inventoried as "shoreslines of the state" under chapter 90.58 RCW.

VALUE Type 2

DESCRIPTION Type 2 water as defined by the DNR State Lands HCP. Segments of natural waters which are not classified as Type 1 Water and have a high fish, wildlife or human use.

VALUE Type 3

DESCRIPTION Type 3 water as defined by the DNR State Lands HCP. Segments of natural waters which are not classified as Type 1 or Type 2 Waters and have a moderate to slight fish, wildlife, or human use.

VALUE Type 4

DESCRIPTION Type 4 water as defined by the DNR State Lands HCP. All segments of natural waters within the bankfull width of defined channels that are perennial nonfish habitat streams.

VALUE Type 5

DESCRIPTION Type 5 water as defined by the DNR State Lands HCP. All segments of natural waters within the bankfull width of defined channels that are not Type 1, 2, 3, or 4 Waters.

VALUE Type 9

DESCRIPTION Unclassified water feature.

[Hide Field SL\\_WTRTY\\_LABEL\\_NM ▲](#)

FIELD [WB\\_PERIOD\\_CD ►](#)

- \* ALIAS WB\_PERIOD\_CD
- \* DATA TYPE String
- \* WIDTH 3



\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Water body periodicity code. This is a classification of a water body in terms of the seasonal behavior of the feature or in terms of its surface flow.

LIST OF VALUES

VALUE DRY

DESCRIPTION Dry land-natural or man-made structures

VALUE EPH

DESCRIPTION Ephemeral. Water bodies that exist only as a result of storm precipitation

VALUE INT

DESCRIPTION Intermittent or seasonal. Water bodies that are dry during certain times of the year

VALUE PER

DESCRIPTION Perennial. Water bodies that essentially exist year round.

VALUE UNK

DESCRIPTION Unknown or Unclassified. Used when condition information is unknown or unclassified

[Hide Field WB\\_PERIOD\\_CD ▲](#)

FIELD [DNR\\_OUTPUT\\_SCL\\_CD ►](#)

\* ALIAS DNR\_OUTPUT\_SCL\_CD

\* DATA TYPE Integer

\* WIDTH 4

\* PRECISION 6

\* SCALE 0

FIELD DESCRIPTION

Output scale. This attribute may be used as a visual, cartographic tool to display an appropriate "density" of linework at a given map scale. Due to the compilation history of DNR HYDRO it has inconsistent stream density across the state; it is "mixed-scale". For example, if creating a map at a scale of 1:100,000 the data that are appropriate to display at 1:24,000 map scale may appear too dense and therefore the map may not be legible. Some features included are too small to display at a scale smaller than 1:24,000. This attribute uses the scale denominator to indicate the largest scale at which the feature should be displayed. Select all values to display all data. Select 24000, 100000, and 750000 to display data appropriate for 1:24,000 map scale. Select 100000 and 750000 to display data appropriate for 1:100,000 map scale. Select 750000 to display data appropriate for 1:750,000 map scale.

[Hide Field DNR\\_OUTPUT\\_SCL\\_CD ▲](#)

FIELD [PDF\\_LOCATION ►](#)

\* ALIAS PDF\_LOCATION

\* DATA TYPE String

\* WIDTH 62

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Hyperlink field with URL to location of PDF of Water Type Modification Form (WTMF). Hyperlinks function within DNR only.

[Hide Field PDF\\_LOCATION ▲](#)

FIELD [EDIT\\_NM\\_CD ►](#)

\* ALIAS EDIT\_NM\_CD

\* DATA TYPE String

\* WIDTH 7  
\* PRECISION 0  
\* SCALE 0

## FIELD DESCRIPTION

Internal DNR user identification code. Identifies which DNR employee last edited the database spatial and/or tabular record. For internal DNR use only.

## LIST OF VALUES

VALUE ccar490  
DESCRIPTION Caruthers, Chuck - Hydro editor

VALUE ctww490  
DESCRIPTION Smith, Carol - Hydro editor

VALUE cwff490  
DESCRIPTION White, Curt - Hydro editor

VALUE dcqq490  
DESCRIPTION Collins, Doretta - Hydro editor

VALUE dmck490  
DESCRIPTION McKay, Mac - Hydro editor

VALUE fpgroup  
DESCRIPTION Forest Practices group - Place holder

VALUE jae490  
DESCRIPTION Angehrn, Jason - Hydro editor

VALUE jfv490  
DESCRIPTION Fenner, John - Hydro editor

VALUE jree490  
DESCRIPTION Johnson, Jill - Hydro editor

VALUE ksw490  
DESCRIPTION Smith, Kevin - Hydro editor

VALUE mmcc490  
DESCRIPTION McBroom, Mary - Hydro editor

VALUE mros490  
DESCRIPTION Rosecrans, Melody - Hydro editor

VALUE nebe490  
DESCRIPTION Eberle, Nancy - Hydro editor

VALUE nezn490  
DESCRIPTION Eberle, Nancy - Hydro editor

VALUE srot490  
DESCRIPTION Roth, Sarah - Hydro editor

VALUE tboy490  
DESCRIPTION Boyd, Tom - Hydro editor

VALUE tcou490  
DESCRIPTION Couillard, Ted - Hydro editor

*Hide Field EDIT\_NM\_CD ▲*

## FIELD EDIT\_DT ►

\* ALIAS EDIT\_DT  
\* DATA TYPE Date  
\* WIDTH 36  
\* PRECISION 0  
\* SCALE 0

## FIELD DESCRIPTION

Edit date. The date of the last edit either to the polygon, or to the attributes. Replaces FTR\_EDIT\_DT.

*Hide Field EDIT\_DT ▲*

## FIELD WB\_SUBTYPE\_CD ►

\* ALIAS WB\_SUBTYPE\_CD  
\* DATA TYPE SmallInteger  
\* WIDTH 2  
\* PRECISION 4  
\* SCALE 0

## FIELD DESCRIPTION

Water body subtype code. A number representing a category of water features containing a specific set of parameters. For example, all water polygons of subtype 2101 have a WB\_HYDR\_FTR\_CD = ST and WB\_CART\_FTR\_CD = 412. These categories or subtypes are based on physical characteristics or for GIS representation requirements.

## LIST OF VALUES

VALUE 2001

DESCRIPTION Lake

VALUE 2002

DESCRIPTION Impoundment

VALUE 2003

DESCRIPTION Alkali flat

VALUE 2004

DESCRIPTION Fish hatchery or farm

VALUE 2101

DESCRIPTION Double-banked stream

VALUE 2102

DESCRIPTION Double-banked side channel

VALUE 2103

DESCRIPTION Double-banked ditch, canal, flume

VALUE 2104

DESCRIPTION Double-banked pipeline

VALUE 2105

DESCRIPTION Reservoir

VALUE 2106

DESCRIPTION Wet area

VALUE 2107

DESCRIPTION Impounded wet area

VALUE 4001

DESCRIPTION Inundation area

VALUE 4002  
DESCRIPTION Glacier or permanent snowfield

VALUE 4003  
DESCRIPTION Island

VALUE 4004  
DESCRIPTION Man-made feature

VALUE 5001  
DESCRIPTION Bay, estuary, ocean

VALUE 9001  
DESCRIPTION Miscellaneous waterbody

[Hide Field WB\\_SUBTYPE\\_CD ▲](#)

FIELD [WB\\_SUBTYPE\\_LABEL\\_NM ►](#)

\* ALIAS WB\_SUBTYPE\_LABEL\_NM

\* DATA TYPE String

\* WIDTH 12

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Water body subtype label. A number representing a category of water features containing a specific set of parameters. For example, all water polygons of subtype 2101 have a WB\_HYDR\_FTR\_CD = ST and WB\_CART\_FTR\_CD = 412. These categories or subtypes are based on physical characteristics or for GIS representation requirements.

LIST OF VALUES

VALUE Lake  
DESCRIPTION Lake

VALUE Impoundment  
DESCRIPTION Impoundment

VALUE Alkali flat  
DESCRIPTION Alkali flat

VALUE Fsh hatchery  
DESCRIPTION Fish hatchery or farm

VALUE Dbl-bnk strm  
DESCRIPTION Double-banked stream

VALUE Dbl-bnk SC  
DESCRIPTION Double-banked side channel

VALUE Dbl-bnk DC  
DESCRIPTION Double-banked ditch, canal, flume

VALUE Dbl-bnk PP  
DESCRIPTION Double-banked pipeline

VALUE Reservoir  
DESCRIPTION Reservoir

VALUE Wet area  
DESCRIPTION Wet area

VALUE Imp wet area

DESCRIPTION Impounded wet area

VALUE Inundat area

DESCRIPTION Inundation area

VALUE Glacier

DESCRIPTION Glacier or permanent snowfield

VALUE Island

DESCRIPTION Island

VALUE Man-made ftr

DESCRIPTION Man-made feature

VALUE Bay/ocean

DESCRIPTION Bay, estuary, ocean

VALUE Misc wtrbdy

DESCRIPTION Miscellaneous waterbody

*Hide Field WB\_SUBTYPE\_LABEL\_NM ▲*

FIELD FP\_REF\_ID ►

\* ALIAS FP\_REF\_ID

\* DATA TYPE String

\* WIDTH 10

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Region Reference Number. Used as the water type modification form (WTMF) document number. This is the tracking number used to uniquely identify WTMF entered into the database since the Fall of 2000. WTMF are the means by which changes to the DNR HYDRO GIS database (also known as the water type map) are proposed. There has been an approved water type modification form (WTMF) if FP\_REF\_ID has a value in one of the following three formats: FP\_REF\_ID = '0000WW1234' where 0000 is a placeholder in the database, WW is two digit WRIA#, and 1234 is sequential number. This format used Fall 2000 to Spring 2008. (2) FP\_REF\_ID = 'RRWWYY1234' where RR is two letter Region abbreviation, WW is two digit WRIA#, YY is two digit year, and 1234 is sequential number (starting at 0001 at start of each year). This is the Region Reference Number which is assigned to all WTMF beginning Spring 2008. (3) If FP\_REF\_ID is in format '0000WW0000' or there is no value, then there is no WTMF and has been no water typing survey or hydro update unless FP\_WTRTY\_1975\_DT is greater than 1992.

*Hide Field FP\_REF\_ID ▲*

FIELD SHAPE.AREA ►

\* ALIAS SHAPE.AREA

\* DATA TYPE Double

\* WIDTH 0

\* PRECISION 0

\* SCALE 0

*Hide Field SHAPE.AREA ▲*

FIELD SHAPE.LEN ►

\* ALIAS SHAPE.LEN

\* DATA TYPE Double

\* WIDTH 0

\* PRECISION 0

\* SCALE 0

[Hide Field SHAPE.LEN ▲](#)

[Hide Details for object ROPA.WBHYDRO ▲](#)

[Hide Fields ▲](#)

## Metadata Details ►

METADATA LANGUAGE English (UNITED STATES)  
 METADATA CHARACTER SET utf8 - 8 bit UCS Transfer Format

SCOPE OF THE DATA DESCRIBED BY THE METADATA dataset  
 SCOPE NAME \* dataset

\* LAST UPDATE 2014-06-20

### ARCGIS METADATA PROPERTIES

METADATA FORMAT ArcGIS 1.0  
 METADATA STYLE FGDC CSDGM Metadata

CREATED IN ARCGIS FOR THE ITEM 2014-06-20 17:36:28  
 LAST MODIFIED IN ARCGIS FOR THE ITEM 2014-06-20 17:39:58

### AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes  
 LAST UPDATE 2014-06-20 17:39:09

[Hide Metadata Details ▲](#)

## Metadata Contacts ►

### METADATA CONTACT

INDIVIDUAL'S NAME Forest Practices Hydro/Trans Data Steward  
 ORGANIZATION'S NAME Washington State Department of Natural Resources, Forest Practices Division  
 CONTACT'S POSITION Hydrography and Transportation Data Steward  
 CONTACT'S ROLE point of contact

### CONTACT INFORMATION ►

PHONE  
 VOICE 360.902.1400  
 FAX 360.902.1428

### ADDRESS

TYPE both  
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 DELIVERY POINT 1111 WASHINGTON STREET S.E.  
 CITY OLYMPIA  
 ADMINISTRATIVE AREA WA  
 POSTAL CODE 98504-7012  
 COUNTRY US  
 E-MAIL ADDRESS [fpd@dnr.wa.gov](mailto:fpd@dnr.wa.gov)

[Hide Contact information ▲](#)

[Hide Metadata Contacts ▲](#)

**Metadata Maintenance** ▶

MAINTENANCE

UPDATE FREQUENCY as needed

*Hide Metadata Maintenance* ▲

**Thumbnail and Enclosures** ▶

THUMBNAIL

THUMBNAIL TYPE JPG

*Hide Thumbnail and Enclosures* ▲

**FGDC Metadata (read-only)** ▼