Australian Government
Bureau of Meteorology

Australian Hydrological Geospatial Fabric
V3.0 product relationships

Water Information
DATA › INFORMATION › INSIGHT

Surface Network
(SH Network)

AHGF Waterbody Polygon
NetNodeID 0..*
MapNodeID 0..*

AHGF Ghost Node Point
MonitoringPointID 1
maps to →
HydroID 1
Monitoring Point Point
(drains ↑)
drains ↑
NetworkStream ID 1
maps to ↓
Hydro ID 1

AHGF Network Stream Polyline
AusHydroID 0..*
(←matches)
AusHydroID 0..1
AHGF Mapped Stream Polyline
DrainID 0..1

AHGF Network Node Point
ConNodeID 0..1
(←matches)
ConNodeID 0..1
AHGF Mapped Node Point
HydroID 1
0..1
HydroID 0..1
ConNodeID 0..1
Hydro ID 1

AHGF Network Connectivity (Upstream)
drains to ↑
AHGF Network Connectivity (Downstream)
drains ↓
AHGF Network Stream FS

(←duplicates)
drains ↓

AHGF Mapped Connectivity (Upstream)
AHGF Mapped Connectivity (Downstream)
AHGF Mapped Stream FS

AHGF Canal Line Polyline
AHGF Dam Point
AHGF Estuary Polygon
AHGF Hydro Area Polygon
AHGF Hydro Line Polyline
AHGF Hydro Point Point
AHGF Sea Polygon
AHGF Structure Point
AHGF Terrain Break Line Polyline
AHGF Water Pipeline Polyline

Surface Cartography
(SH Cartography)

1 HydroID
NetNodeID 0..*
AHGF Catchment Polygon
1 NCB_ID

Surface Catchments
(SH Catchments)

is extended by ↓
NCB Level 1 Drainage Division Polygon
DivNumber 1
contains ↓
Level1 1..*
1 NCB_ID
NCB Pfafstetter
1..* Level2
NCB Level 2 Drainage Basin Group Polygon
Level2Num 1
contains →

Hydrology Reporting Catchments
(HR Catchments)

HydroID 0..1
AHGF Node Point
ConNodeID 0..1
drains ↓
1..* ConNodeID 0..*
AHGF Contracted Catchment Polygon
AHGF Node-Link Connectivity (Upstream)
AHGF Node-Link Connectivity (Downstream)
AHGF Link Polyline
DrainID 0..1
← drains to
1 HydroID

1 (maps to →) 1
HydroID 1 (maps to →) 1
ConCatID

Hydrology Reporting Regions
(HR Regions)

AWRA DD Contracted Catchment Lookup
1 ←maps to 1..* 1
AWRA Drainage Division Polygon
AWRAID HydroID
RR Contracted Catchment Lookup
1 ← maps to 1..* 1
River Region Polygon

AHGF Feature Class
AHGF Table
Non-AHGF Feature Class
Non-AHGF Table

Supplied relationship class
Optional relationship class
Strong spatial alignment