



DATA MANAGEMENT TOOLS FOR ADJUDICATIONS IN UTAH

**2018 WSWC WATER INFORMATION
MANAGEMENT SYSTEMS WORKSHOP**

DECADES OF DEVELOPMENT

1980s – Database of all water rights created

1990s – Database access goes online

**2000s – Use of ESRI software in adjudication
mapping**

**2010s – Mapping layers moved to enterprise level
geodatabase**



CURRENT RESOURCES

Database Server

Windows Server 2012 R2 Datacenter
MS SQL Server 2012 Standard

Web Server

Windows Server 2012 R2 Datacenter
IIS Configured for ASP
Numerous Web Applications
ArcGIS JavaScript API

Enterprise (Department Level) SDE

SQL Server Enterprise Geodatabase
ArcMap
Collector for ArcGIS



WATER RIGHT DATA VS ADJUDICATION DATA

**Water Rights
Database**



Data Transfer
Pre-Adjudication

**Adjudication
Database**



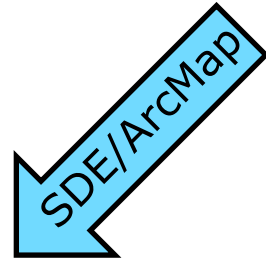
Staff Alerts

Data Transfer
Post-Adjudication

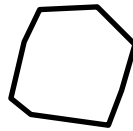


ADJUDICATION DATA PROCESS

GIS

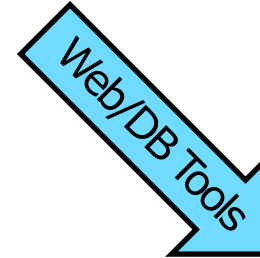


- Layers Created in SDE and populated with initial data



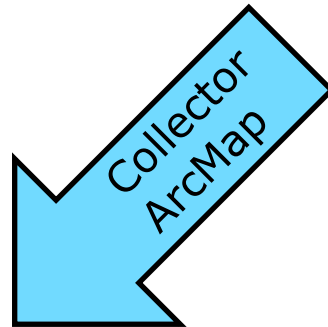
**Subdivision
Boundary
Created**

Database

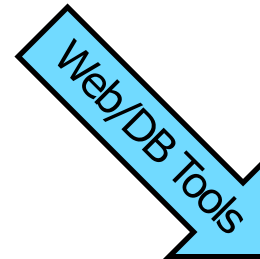


- List of Water Rights Created
- Info transferred from WRDB

**Field
Work**



- Prepare Hydrographic Survey



- Prepare Proposed Determination



WEB DEMO



QUESTIONS/COMMENTS

Contact Info:

Jim Reese

jreese@utah.gov

waterrights.utah.gov

