





The Colorado Water Quality Monitoring Council serves as a statewide collaborative body, open to all, to help achieve effective goal identification, data collection, data analysis, data retrieval, and reporting/dissemination of water quality data, and monitoring information.

MISSION:

Provide a collaborative forum for implementation of effective collection, analyses, formatting, and sharing of water quality data.



Began With a Vision:

To have a sufficient quantity of scientifically sound data that is available to all to facilitate water quality protection.

History

- DRCOG Initiated Regional Data Sharing Effort
- 2000 CWQMC Organized State/USGS Facilitated
- 2001 First Data Swap Clear Creek/So. Platte
- 2003 Awarded EPA RGI Grant Meta Data Map
- 2004 Awarded NPS Grant NPS Legacy Data
- 2006 Data Sharing Network (DSN) Created
- 2007 Interactive Map Created Limited
- 2008 Awarded Second NPS Grant
- 2009 Conversion to WQX
- 2010 Interactive Google Based Map coming soon

What is the Data Sharing Network, DSN

- A shared, web based water quality data management system; data input, output and data manipulation.
- A web-based map, in compliment to the data management system, that shares monitoring locations, contact and monitoring information, allows downloading of site data (Coming Soon)



Ambient Water Quality Monitoring System, AWQMS

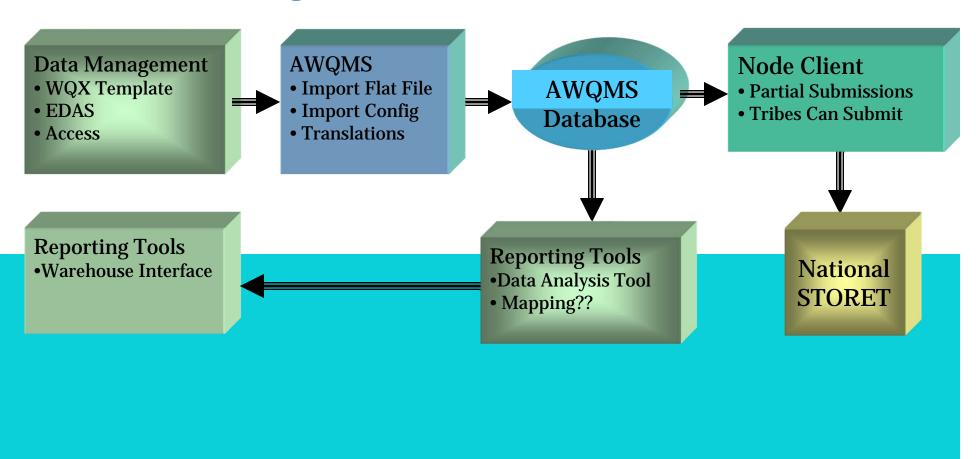
Core Functionality:

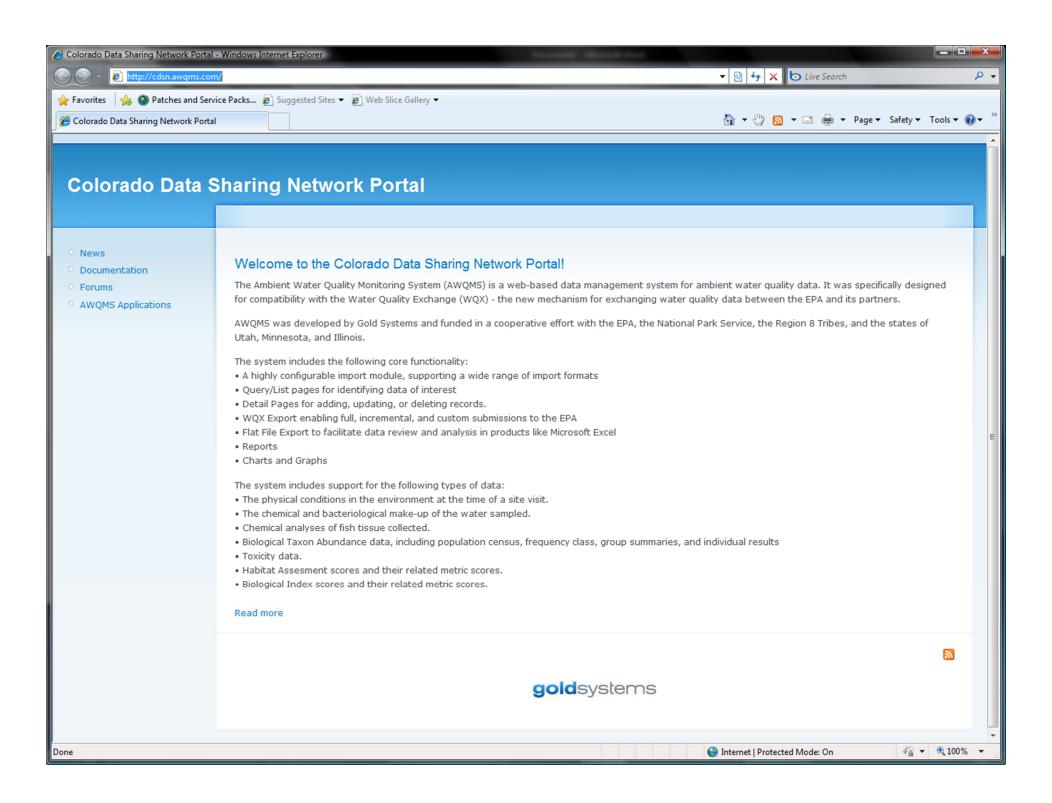
- Highly configurable import module
- Query List find data of interest
- Adding, updating and deleting data
- Compatibility with WQX for data export to EPA
- Data export to Excel
- Reports and charts

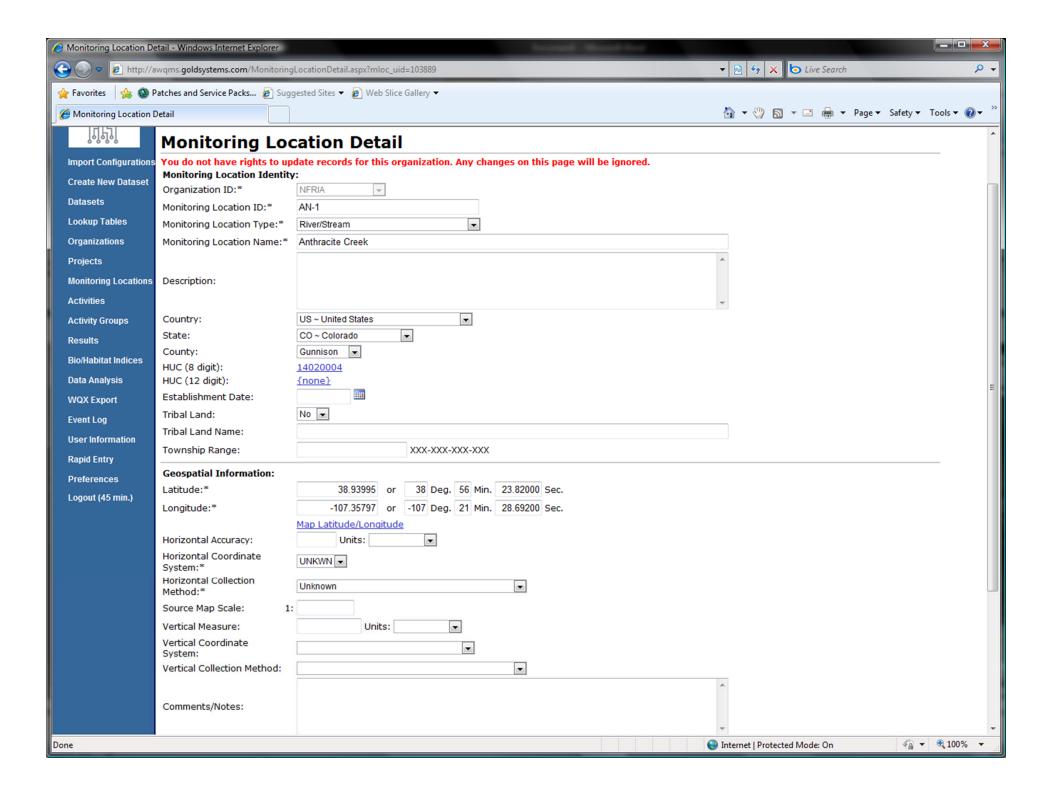


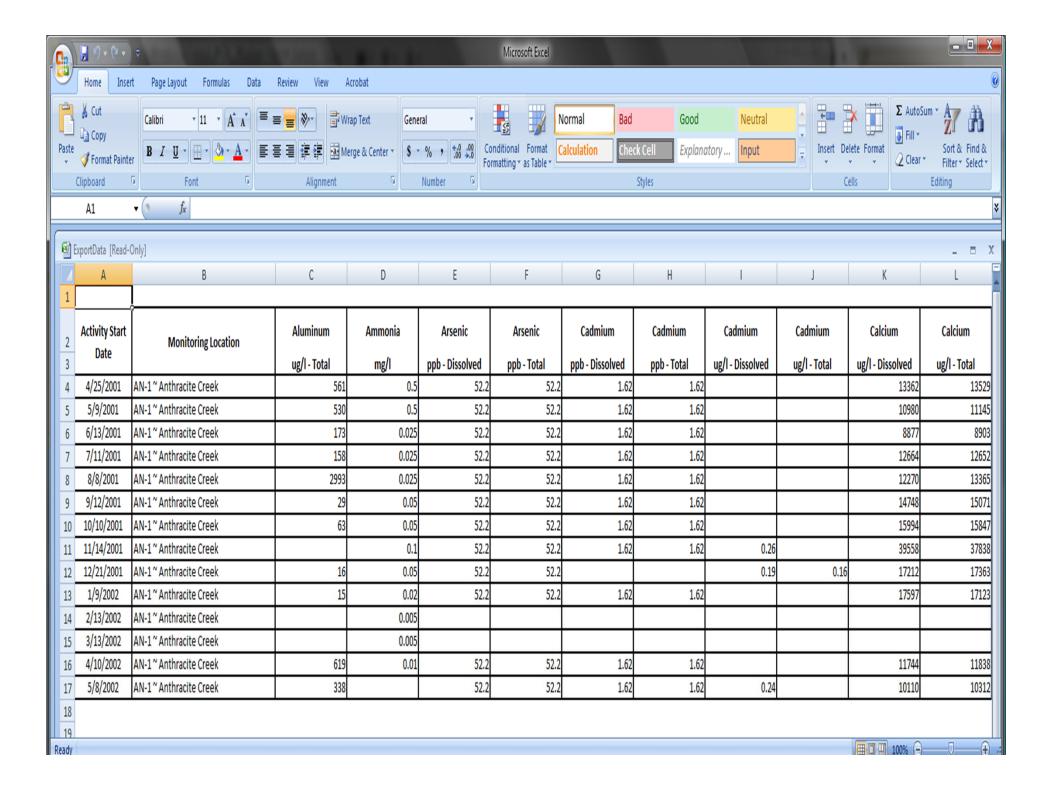
CWQMC COLORADO WATER QUALITY MONITORING COUNCIL

Hosting Environment Updates







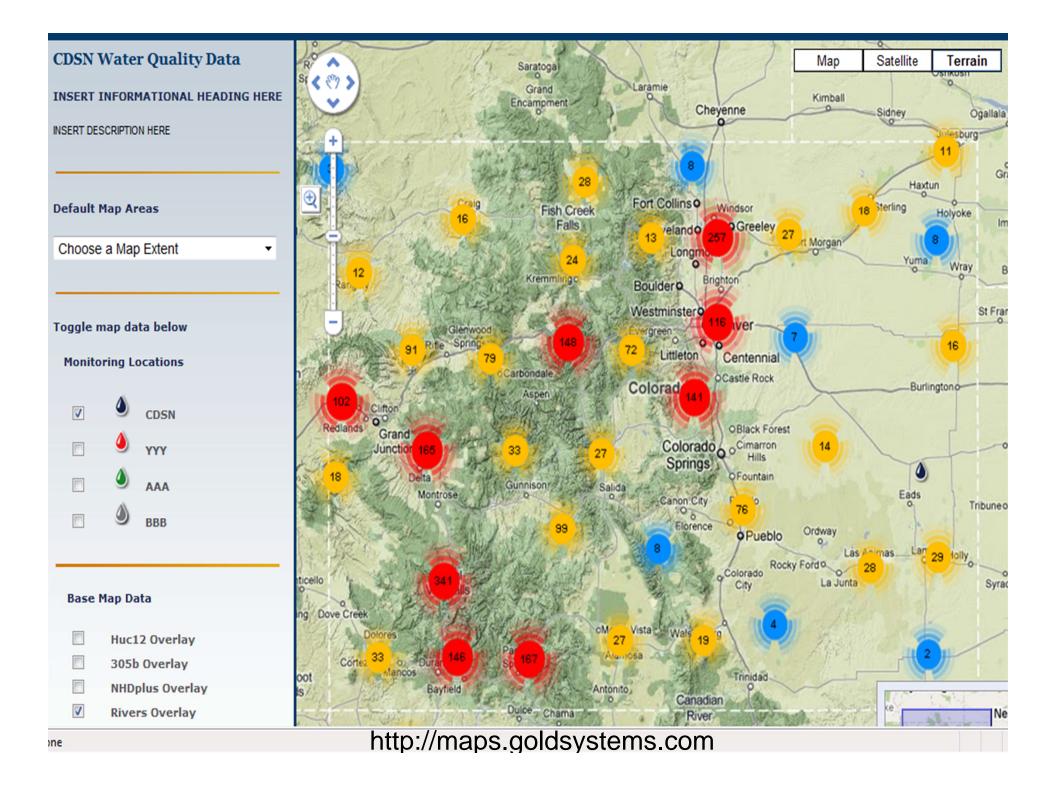


AWQMS Website

http:cdsn.awqms.com

- Documentation
- Data Portal Login Organization ID/Password
- Tutorials (LearningZen) Login Demo/Demo
- Public Access cdsnpublic/cdsnpublic

AWQMS was developed by Gold Systems and funded in a cooperative effort with the EPA, the National Park Service, the Region 8 Tribes, and the states of Utah, Minnesota, and Illinois.



CDSN Water Quality Data INSERT INFORMATIONAL HEADING HERE NSERT DESCRIPTION HERE Default Map Areas Choose a Map Extent Toggle map data below

Monitoring Locations



CDSN







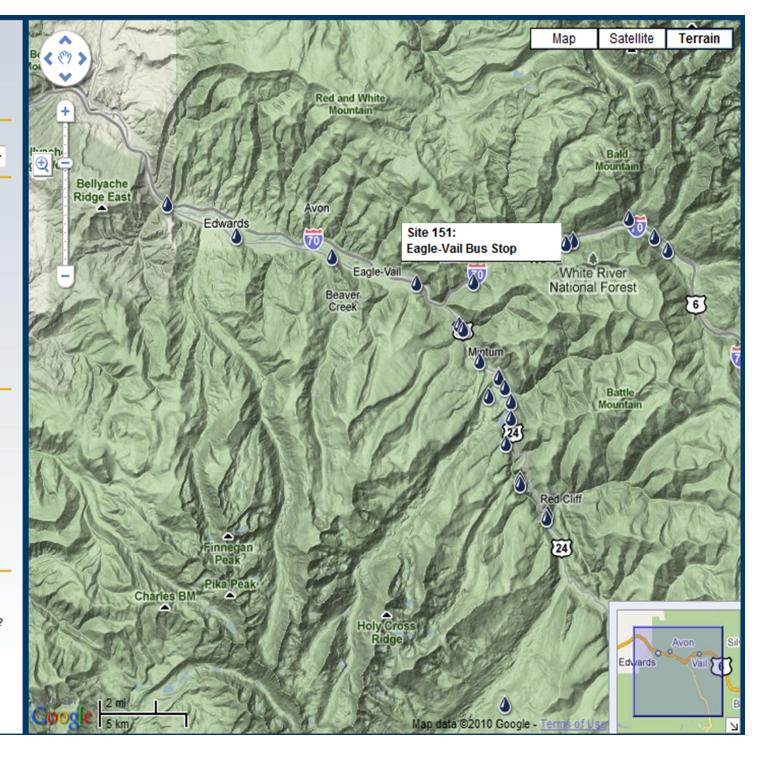
BBB

Base Map Data

- **Huc12 Overlay**
- 305b Overlay
- **NHDplus Overlay**
- **Rivers Overlay**
- **Lakes Overlay**
- **County Boundaries**

Export Format

Export data results to Excel?



Monitoring Location ID	Monitoring Location Name	Monitoring Location Latitude	Monitoring Location Longitude	Activity Media Name	Activity Type	Activity Start Date	Activity Start Time	Characteristic Name	Result Measure Value	Result Measure Unit
	Eagle-Vail Bus				Field Msr/Obs- Habitat					
151	Stop	39.6193	-106.466	Biological	Assessment	10/12/2007	9:30:00 AM	Count	10	count
151	Eagle-Vail Bus Stop	39.6193	-106.466	Water	Field Msr/Obs	10/10/2000	9:30:00 AM	Alkalinity, total	90	mg/l
151	Eagle-Vail Bus Stop	39.6193	-106.466	Water	Field Msr/Obs	10/10/2000	9:30:00 AM	Calcium carbonate	16	mg/l
151	Eagle-Vail Bus Stop	39.6193	-106.466	Water	Field Msr/Obs	10/10/2000	9:30:00 AM	рН	8.67	None
151	Eagle-Vail Bus Stop	39.6193	-106.466	Water	Field Msr/Obs	10/10/2000	9:30:00 AM	Hardness, Ca, Mg	120	mg/l
151	Eagle-Vail Bus Stop	39.6193	-106.466		Field Msr/Obs	10/10/2000	9:30:00 AM	Temperature, water	9	deg C
151	Eagle-Vail Bus Stop	39.6193	-106.466	Water	Field Msr/Obs	10/10/2000	9:30:00 AM	Flow	72	cfs
151	Eagle-Vail Bus Stop	39.6193	-106.466	Water	Field Msr/Obs	10/10/2000	9:30:00 AM	Dissolved oxygen (DO)	8.7	mg/l
151	Eagle-Vail Bus Stop	39.6193	-106.466	Water	Sample-Routine	10/10/2000	9:30:00 AM	Iron	312	ug/l
151	Eagle-Vail Bus Stop	39.6193	-106.466	Water	Sample-Routine	10/10/2000	9:30:00 AM	Calcium	31854	ug/l
151	Eagle-Vail Bus Stop	39.6193	-106.466	Water	Sample-Routine	10/10/2000	9:30:00 AM	Zinc	54.5	ug/l
151	Eagle-Vail Bus Stop	39.6193	-106.466	Water	Sample-Routine	10/10/2000	9:30:00 AM	Selenium	C	ug/l
151	Eagle-Vail Bus Stop	39.6193	-106.466	Water	Sample-Routine	10/10/2000	9:30:00 AM	Magnesium	7550	lug/l

- Watershed Data Swaps are a gathering of all entities in a basin that are engaged in watershed management, data collection, or need. These Watershed Swaps are networking events hosted by the CWQMC and local watershed leaders and become part of a collective statewide voice for monitoring and watershed issues.
- SWAP schedule follows WQCC Basin Hearing schedule.
- Eleven SWAPs to date.



Black Campon of the Camposon

EVALUATION:

- Content and pace about right (160%)
 Unanimous increased knowledge of DSN and difference between
- Database and map Limited data generators in the basin. Most of work done by USGS. NPS projects, tumarisk removal or typical municipality data.
- All participants need dute and plan to use the database and map where appropriate.
- 7 out of 8 participants plan to upload data or need to get permission it, those that were not did
- not have dace to upload •3 of participants have legacy data to upload and 6 requested help leading data into DSN

FREQUENCY:

- Yes, no other outlet for this at this time
- →Yes, night scale. I
- •Frequency 1-3 years
 •Fugure topics upper and
 leaver basins, data and
- polity presumations, review local issues, share with public and decision meliors, half day eachnital and have thy public presentations

Upper Gunnison & Tribs, Gunnison 11/6/2007

Expectations: See OSN as a solution for their need to share data and information as part of their mission ~ DSN as a possibility to stare generated in a way it can be shared – Desire to know what activities are going on and what data exists ~ Desire for a long term data startige solution ~ Informations of what we are doing and fearn what they are doing.

Watershed SWAP Priorities and Concerns:

- There is a loc of monitoring activity occurring in the upper basin but the efforts are not necessarily
 coordinated and data are not shared. The desire is there; existing coordination in the basin is working.
- Need to increase our capacity to share data to help our mission, need a woll such as DSN.
- Need a long term and austrinable data storage solution for stakeholder, cooperative monitoring efforts
- Need a way to manage and score the large amounts of data generated from grants in Lake City area.
- Basic routine parameter needs in Gumison area are physical habitar, chemical indicators and E coli.
- Group goal is an overall and common understanding of the health, condition and management solutions
 of the River, even though each member may have a different perspective on overall issues
- Need to protect the water resources within the National Recreation Area for the public. Relatively no
 impacts at this time, but threads exist and need to be able to detect change, trends and react accordingly.
- Would like to propose outstanding waters for many of Recreation Area waters but need to make sure it is the right proposal at the right time
- · Protect public and environmental health in the basin while ensuring own operations are non impacting
- Each septic system in exempt needs a permit and is monitored by specialists who need too keep up to speed on water quality issues. Use is a good source. Need to monitor and regulate septic systems.
- Concorn about emerging contaminants and the ability to manage or creat the problem.
- Priority to acquire long term funding for monitoring, data management and reporting
- Producing a watershed plan and need to identify our environ and future monitoring needs and gaps. Our rendy
 working on small scale TMDL, and characterization studies, then move to implementation and evaluation.
- Need a reference site for macroinvertebrate and nutrients comparisons
- Need to share Discharge Monthly Raports and integrate them with other data sources.
- Below Standard Mine Superfund site: need to distinguish source loading from the fen versus the mine discharge, storm water and ground water influences
- Manitoring sheds light on issues or problems but not sure who is at fault or who should take next steps.
- Need funds to support water quality monitoring and analyses for any work to take place
- Funding existing monitoring programs is increasingly difficult, costs increase but UGSG contribution is flat and thus less funds are available for actual work.
- Need to exchange information but also help with interpretation of reports and data that does dome in from the USGS. More effort is peeded to put this data to use and help others understand.
- Would be helpful to have the Water Resource Division and Water Quality Division are the same language. These two agencies need to be linked better at all levels.
- Inconsistent regulation on oil and gas fracking material: finding material in local sols.
- TMDL's being developed for Lake City may not be achievable, need to determine background levels to know what is feasible and achievable? Concern about which should come first, standard or TMDL? The Y/S plan is very comprehensive, more than water and goes all the way to Blue Mesa Reservoir.
- Speed at which data is made available to public; ourning data to information takes too long
- Degrading water quality (nucrient & meta's leading) and squatte life health in National Regression Area

Sponsors









Colorado Data Sharing Network in Review: The Gunnison Basin - Upper Gunnison River & Tribs

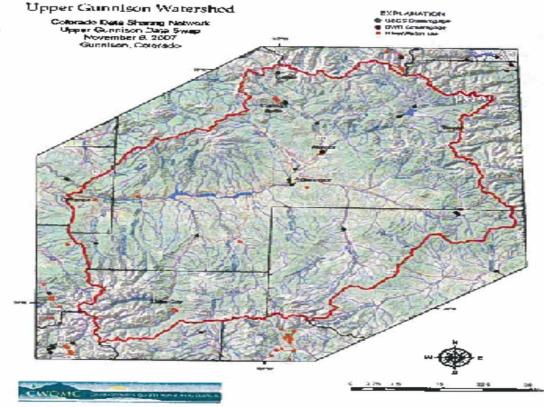
Who attended?

Anthony Poponi,
Coal Creek Watershed Coalition
Burbara Hite,
Burbara Hite,
Burbara Balch,
Town of Cressed Butte
Frank Kugel,
Upper Ginnolson River Water
Conservancy District
Jeremy Yoh,
Alo Grande Headwaters
Restoration Project
Kinstin Brown,
Division of Reclamation Mining &
Salegy

Who was missing?

National Park Service Tyler Martineau, Upper Gunnison River Water

Rocky Mountain Biological Lab
Trout Unlimited
Rafting community
Scenic River Tours
Almont Resons
Hallburton
NRCS
Lucky Jack Mina
Power Horn Group
Cressed Butte Ski Area
H.ndsdate Councy
Cressed Butte South Metropolitan
District





Matthew Malick,

Map created by and clonered from LSGS.

Who was invited?

BLM
Selenium Task Force
CO Watershed Assembly
Sen Juan SWCD
Willow Creek
Coal Creek Wesenshed
Coalition
Sky Island Wesen Disprice
Gunnison Util 666
Lake Ony WQ Stakeholders

USGS
USFWS
CU
Bug Specialist
Data County
Gunnison County GIS
State Division Engineer
Gunnison County
Town of Gunnison
Racky Maunally Biological

Laboratory
Batternant Moss, Water
Conservancy District
Grand Mess, Water
Conservancy District
Upper Gunnison River Water
Conservancy District
Crawford Water Conservancy
District
National Park Service

Gunnisch County
Upper Gunnisch River Waker
Conservancy District
Division of Reclamation Mining
& Sefesy
Gunnisch NRCS Field Office
Gunnisch Corservation District
Town of Crested Busse
Crested Busse Settle Busse Crested Busse

Members/Contributors:

Big Thompson Watershed Forum | Northern Colorado Water Conservancy District | North Fork River Improvement Association | South Platte River Coalition for Urban Evaluation (SPCURE) | City of Aurora | City of Brighton | City of Centennial | City of Englewood | City of Glendale | City of Littleton | City of Thornton | City of Denver Department of Environmental Health | Metro Wastewater and Reclamation District | South Adams County Water and Sanitation District | North Front Range Water Quality Planning Association | Big Dry Creek Watershed Association | Barr Lake/Milton Watershed Association | Animas River Stakeholders Group | Coal Creek Watershed Coalition | City of Fort Collins / Friends of the Poudre | Colorado State University Selenium and Iron Studies | U.S. Geological Survey Colorado Selenium Studies | Centennial Water & Sanitation District | Littleton/Englewood Wastewater Treatment Plant | Lake Fork Watershed Stakeholders | Colorado River Watch

South Platte River Coalition for Urban Evaluation (SPCURE)

State of Colorado Non-Point Source Program

More Information - www.coloradowaterquality.org





Who Can I Call for Help?

DSN Coordinators

Lynn Padgett

Jeff Litteral

970-626-4045