DRD and Science

- "DRD Science"
 - Any completed research or monitoring
 - Current efforts by members of DRD or other
 - Efforts to identify additional needs

DRD and Science

Recent meeting with these purposes:

- 1) Cross-communication and feedback regarding current efforts.
- 2) Identify key needs to be met (e.g. Coordination with spill management).
- 3) Identify key "big picture" questions.
- 4) Identify next steps for addressing key questions.

Current Efforts

Take Away:

- 1. Big efforts, with at least:
 - 8 people and 11 organizations investing
 - 16 different questions to increase our understanding of each core science discipline
- 2. This is not easy work.
 - Needs range from rafts and housing to sampling flows.
 How can we help meet these needs?
- 3. Are we getting the information we need most?
 - What more should/could we be doing? How can it be funded?

River Mechanics

		Study Sites or Focal DRD	
Lead	Question(s)	Reaches	Needs
D. Graf	How do flows affect geomorphic proecesses in Reach	Reach 1 (Lone	1. Field Assistance. 2. Catalog all past
(CDOW)	1? Has the habitat improvement work at Lone Dome	Dome)	channel, bank, and floodplain work done
	improved riffle/pool habitat for Trout? Define best		in 1st 12 miles below dam.
	restoration strategies for Reach 1		
D. Graf	How do flows affect geomorphic processes at the Dove	Reach 3 (one	
(CDOW)	Ck Pump sampling site? How does this reach compare	site)	
	w/ Lone Dome site?		
D. Graf	5 1 1	Reach 5	
(CDOW)	How could we optimize the flow regime in order to scour		
	fine sediment through Big Gyp valley?		
S. Jensen	How is BLM land management affecting	Disappointment	With more funding could do more
(USFS)	geomorphology?	Valley, Big	surveys.
		Gypsum Valley	
		(3), Dry Creek	
		Basin.	

Riparian Ecology

		Study Sites or Focal DRD	
Lead	Question(s)	Reaches	Needs
A. Coble	Has regeneration occurred for major native tree species	Reaches 1-6, Above	Vehicle, lodging, boats. Study sites
(NAU)	on lower Dolores and what flow events are associated	McPhee Dam,	above McPhee Dam. Searching for
funded by	with that regeneration? How does the regeneration and	Tabeguache	more funding to attain a full-time
CWCB and	growth of cottonwoods compare below and above	Preserve on San	paid assistanship.
NAU.	McPhee dam? between the Dolores and the San	Miguel River	
	Miguel Rivers?		
J. Siscoe	What Is the link between riparian habitat and aquatic	Reach 4	1. Assistance monitoring points into
(MVIC)	habitat, fish populations and water quality?		the future 2. Coordinate C. Dott's
funded by			work with A. Coble's and S.
CWCB, FLC			Jensen's.
and others.			
Ρ.	What is the status/rate of vegetation encroachment onto	Above Bradfield	
Summers	floodplain?	Bridge - permanent	
		study site.	
S. Jensen	How has Dolores River riparian area/channel changed	Reaches 1-4	Find approximate points: GPS and
(USFS)	over time since Dam construction?	(Slickrock up to the	repeat photography.
, ,		Dam)	
S. Jensen	Is BLM meeting Rangeland Health Standards under	Disappointment	
(USFS)	current management?	Valley, Big Gypsum	
		Valley (3 sites), Dry	
		Creek Basin.	

Cold Water Fish

		Study Sites or	
		Focal DRD	
Lead	Question(s)	Reaches	Needs
C. Anderson	Why is there so much algae below the dam? What is	Reach 1	Information from any past WQ
(BUGS)	the impact on the trout fishery? What sort of bottleneck		sampling. Follow up: What can be
funded by	is created for trout by warm temperatures and decaying		done to remediate? Is there a way to
DWCD	algae at low flows?		use the selective outlet works for
			remediation?
C. Anderson	How can we mitigate non-point source pollution on the	Reaches 1-6	All existing information
(BUGS)	Dolores?	and on to State	
funded by		Line	
Water			
Quality			
Control			
Division			
(Nonpoint			
Source			
Program) of			
the			
CDPH&E			
J. White	What is the species composition and biomass/acre of	Reach 1	
(CDOW)	trout and sculpin?		
J. White	What is the species composition and biomass/acre by	Dove Creek	
(CDOW)	species?	Pumps	

Warm Water Fish

		Study Sites or Focal DRD	
Lead	Question(s)	Reaches	Needs
J. White	What is the status of 3 species of concern	Pyramid to	Sampling flows (400-800cfs) in April.
(CDOW)	(flannelmouth, bluehead sucker, roundtail chub)?	Disappointment	
		(14 mi portion of	
		Reach 4)	
D. Kowalski	What is the status of 3 species of concern	Big Gypsum	
· · · ·	(flannelmouth, bluehead sucker, roundtail chub)?	Valley (Reach 4)	
D. Kowalski		Slickrock Canyon	Sampling flows (400-800cfs) in April.
(CDOW)		(Reach 5)	
D. Kowalski		Above Gateway to	Sampling flows (400-800cfs) in April.
(CDOW)		Stateline	
	What is the WQ and what is the status of the habitat?		Field assistance from very hardy
(BUGS)	What tributaries [perennial] are the most likely to be	on to State Line	people. A central place to base from.
-	impacting the WQ on the Dolores?		
SJCA			
S. Jensen	Which sub-watersheds of Disappointment Creek are	6 sites in	
(USFS)	contributing the most salinity?	Disappointment	
		Valley	