Moab Area Watershed Partnership

Meeting Minutes November 18, 2015

Grand Center, Moab

Stakeholders Present	Affiliation	Others
Kara Dohrenwend	Grand Conservation District	Carrie Baily Citizen
Ann Marie Aubry	BLM	Ken Kolm Consultant
Jeff Adams	Terrasophia LLC	
Dave Erley	Town of Castle Valley	
Gerrish Willis	Canyonlands Watershed Council	
Don Andrews	NRCS	
Mike Allred	UT DWQ	
Bob O'Brien	Moab Solutions	
Bob Davidson	USFS – Manti La Sal	
Dana Van Horn	GWSSA	
Heila Ershadi	Moab City	
Zacheria Levine	Grand County	
Roslynn Brian	USU Sustainability	
Orion Rogers	Grand County Health Dept.	
Jeremy Lynch	USU Sustainability	
Elizabeth Tubbs	Grand County	
Phillip Bowman	Moab City	
Kirstin Peterson	Moab City	
Jason Johnson	UFFSL	
Kyle Baily	Moab City	

	DIGCUGGION	
ACTIVITY	DISCUSSION	ACTION
Review Agenda and	Introductions were not made.	September minutes were
Introductions		approved and today's
		agenda was accepted.
2015 Water Year	Mercury in Fish Review:	Arne will remind UDWQ
Monitoring Report:	Arne presented the 2014 results for mercury in fish from Mill	fish monitoring personnel
 2014 Mercury 	Creek below the Powerdam. The results were some of the highest	that we requested the
in Fish	recorded values collected in the State and all the exceeded the	sampling above the
 Summary of 	.3ug/kg standard significantly. These results were discussed last	Powerdam.
2012-2013	spring and the MAWP recommended that the State collect some	
UDWQ	samples directly above the Powerdam as the Power dam stream	Arne will incorporate the
intensive data	segment is essentially a fish trap. The State has agreed with the	data collected since 2012
standard	request but couldn't schedule if for last summer. They agreed to	into the watershed
exceedances	consider it for a site the summer of 2016.	management plan as
 Summary of 	2012-2013 UDWQ intensive data:	current data.
2015 Coliform	The intensive data collected during the most recent intensive	
results	indicated water quality improvement from previous intensive	Arne will continue the
 Optical 	sampling. Arne presented tables showing that none of the sites	current sampling efforts of
Brightener	sampled in the MAWP watershed during this intensive violated	the Sampling Analysis Plan
results	water quality standards more than 10% of the time for all	in the Watershed
Development of 2015	constituents except temperature and E. coli. This data indicates	Management Plan with the
recommendations for	that for all parameters other than temperature and E. coli the	exception of some added
Coliform sampling and	streams are supporting their beneficial use designations.	sampling at the spring

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possible	Summary of 2015 Coliform results:	below the diversion in the
improvements.	Arne presented graphs of the individual site sampling results and	Town of Castle Valley.
 Summary of 	compiled data for all sites. The data indicate that several sites do	Castle Valley has requested
2015 Specific	not exceed the water quality standard for swimming. The good	adding that location to
Conductance/T	news is that several of those sites are very popular swimming	coliform and optical
otal Dissolved	areas. The sites that meet the standard are:	brightener sampling.
Solids results	Mill Creek below the Powerdam	
Development of 2015	Kens Lake	
recommendations for	Castle Creek at USFS Boundary	
TDS sampling and	Castle Creek at Castleton	
possible improvements	The other seven sites sampled for E. Coli exceed the geometric	
 Overview of 	mean standard for E. Coli. Those sites are:	
pre and post	Pack Creek at Spanish Trail Road	
2012 data	Pack Creek and Pack Creek Campground	
Discussion of how we	Pack Creek above Mill Creek at 200 South	
incorporate the new	Mill Creek at Mill Creek Drive	
data into the	Mill Creek above Pack Creek at U191	
Watershed	Mill Creek below the confluence with Pack Creek @ 500 W	
Management Plan.	Castle Creek in the Town of Castle Valley	
• 2017-2018	Castle Creek at U128 xing.	
UDWQ	Arne also explained there are two standards for E Coli, one is for	
intensive	the geometric mean of all samples (126 E Coli/100 ml) and the	
efforts.	other is the maximum for any one sample (409 E Coli/100 ml).	
What	Several of the sites had results where the geometric mean of all	
recommendations do	samples exceed the maximum for any one sample. Those sites	
we want to make to	were:	
UDWQ next year for	Pack Creek at Pack Creek Campground	
the intensive sampling	Pack Creek ab Mill Creek at 200 S	
efforts they will	Mill Creek at Mill Creek Drive	
perform in 2017-2018	Mill Creek below confluence with Pack Creek at 500 W	
	Optical Brightener/Results:	
	One of the recommendations from last year was to do an optical	
	brightener sampling to determine if the waters are receiving	
	effluent from leaking sewage pipes or septic systems. Arne	
	devices this merning. Mike made an effort to derken the ream	
	devices this morning. Wike made an errort to darken the room	
	and show the qualitative results to the attendees. Indeed the	
	samples did hubiesce didder a black light indicating the streams	
	Area explained that if UDWO and the Department of Health were	
	Arrie explained that if ODWQ and the Department of freath were	
	exceeding E Coli standards could be listed as non-attainment for	
	E Coli and signage indicating the dangers of contact with these	
	waters could be erected. Arne commented that he did not	
	helieve the MAWP partners wanted a sign on Main St in Mosh	
	requesting neonle avoid contact with these waters because of F	
	coli levels. Currently there aren't any projects aimed at	
	decreasing F coli levels in the watersheds. The groun discussed	
	nrojects that could help E coli levels as well as nossibilities for	
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	determining the number of septic systems still being used in	
	Summary of 2015 Specific Conductance/Total Dissolved Solids	
	results:	
	Arne presented graphs of compiled averages of samples for TDS	
	taken in 2015. He informed the group that none of the samples	
	exceeded standards for TDS.	
	Overview of pre and post 2012 data:	
	Arne presented graphs comparing pre 2012 results to post 2012	
	results. The graphs indicated that with the exception of E Coli and	
	temperature, there has been significant improvement for several	
	parameters that had been exceeding water quality standards. The	
	attendees questioned the means of improvements but no	
	substantial hypothesis was developed.	
	Arne asked the group for ideas on how to incorporate the post	
	2012 results into the watershed Management Plan. The group	
	data into current (last ten years) and historic data was a good	
	idea	
	Arne reminded the group that a year from now the MAWP will	
	need to make recommendations on sampling locations for 2017-	
	18 UDWQ intensive monitoring.	
Continuous water	Arne presented temperature profiles for the seven sites where	Arne will continue to
temperature profiles	temperature is being monitored continuously. This data does	maintain and compile
	indicate even upstream locations occasionally exceed the cold	probes and temperature
	water fisheries maximum temperature standard of 20 degrees C.	data.
	Some downstream locations exceed the temperature standard	
	almost 25% of the year. This data combined with flow data could	
	be used to determine the possibilities for instream and riparian	
	improvements to lower water temperatures.	
Continuous depth	Arne presented 6 months of water level data from a monitoring	Arne will speak with Jeff of
profiles	well in downtown Moab. Arne asked the attendees if they had	Moab City about installing a
	seen groundwater levels change like this data does. Several	pressure transducer in a
	attendees said they had and it wasn't unusual. None of the	monitoring well in Swaney
	attendees could explain why groundwater levels would change so	Park.
	quickly. Arne asked the group if they wanted him to pursue	Arne will continue to work
	believes it could be valuable data	donth files
	Arne presented the denth data from one of the instream probes	deptil mes.
	It was similar to other instream data with stable flows near	
	baseline that were spiked with flash flooding events. Arne	
	explained compiling and converting this data to actual flows	
	wasn't easy but would eventually have flow files for all the sites.	
Items not on the	Section 2.8, 2.9, & 2.10	Arne put these items out as
Agenda		not on the agenda, using it
		as a place holder for future
		meetings.
Adjourn	The next meeting will be at 1:00 January 20 at the Grand Center	Adjournment