

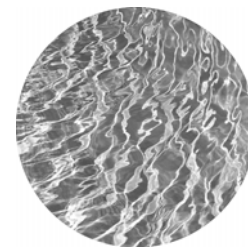
Barr Lake/Milton Reservoir Watershed Association

2007 Technical Committee Meeting Minutes

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Barr/Milton Watershed Association

Technical Committee



BMW Technical Committee Meeting
 Tuesday, January 23, 2007
 Metro Wastewater Reclamation District, Administration Building
 12:00pm – 2:00pm

Committee Meeting Notes

1. Attendance

Steve Lundt (Metro)	Todd Harris (Metro)	Laurie Rink (FRICO)
Kelly DiNatale (United Water)	Chris Piper (Denver Water)	Jim Dorsch (Metro)

2. Reservoir Assessment

Due to other legal issues, FRICO may take months before updating the flow data. Vic Lucero was going to contact FRICO to talk to them about the situation and importance of getting the updated data.

The hydrosphere contract to update the database for \$7,000 was approved at the board meeting. Laurie Rink was going to contact Hydrosphere about the approval of the contract and ask them to remove a paragraph. Hydrosphere will take 6 weeks to finalize assessments once all the data is given to them.

3. Water Quality Modeling

The scope, schedule, and budget break down were discussed during the board meeting and approved. The board will administer the modeling project into phase and will authorize ENSR to begin phases 1 and 2. Kelly DiNatale will organize a meeting with ENSR to talk about how the flows and water rights work for the watershed.

4. Update BMW WQ Database

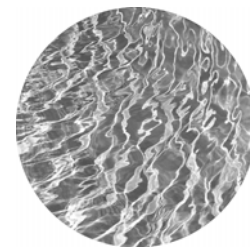
The deadline to send data for the update is February 2nd. Alice Wood will collect all the data and then send it to Hydrosphere. Laurie Rink mentioned that there is plenty of flow data out there that needs to get to ENSR. All the ditch flow data is available from Bob Stoll and Kelly DiNatale mentioned that he had a disk (Hydrobase) with all the ditch flow data on it. Jim Dorsch volunteered to make sure we got all the ditch flow data. Jim Dorsch also volunteered to get all the USGS gauge data from the internet. The SPCURE data will not get to Hydrosphere until after February 9th.

5. Next Meeting

Technical meetings will be on the 4th Thursday of each month. Next meeting will be February 22nd at 10:30 at Metro. If there is not enough info to talk about, then the meeting in February can be done by phone or e-mail.

Barr/Milton Watershed Association

Technical Committee



BMW Technical Committee Meeting
 Thursday, March 22, 2007
 Metro Wastewater Reclamation District, Administration Building
 10:30pm – 12:00pm

Committee Meeting Notes

1. Attendance

Steve Lundt (Metro)	Ken Wagner (ENSR, phone)	Laurie Rink (FRICO)
Kelly DiNatale (CDM, phone)	Joni Nuttle (CDPHE)	Ken Heim (ENSR, phone)

2. Reservoir Assessment

Vic Lucero spoke with Manual Montoya this morning and Manual said that Barr Lake flow data will be ready next week and Milton will be ready the following week. Laurie Rink gave an update for Ken W. and Ken H. about the issues why the flow data needs to be updated for the reservoir assessments. Hydrosphere has done nothing for the assessments and will take about 6 weeks to finalize once they have the new flow data.

3. Water Quality Modeling

Ken Wagner talked about defining the end or starting points for the sub-watershed modeling efforts. Ken W. suggested started at the Burlington Headgate to start the modeling efforts. This site has lots of flow and chemistry data.

Ken Wagner also mentioned that it is important that the timeframe of the flow and chemistry data is similar to the timeframe of the GIS/watershed characteristic data. Don't want old land use data used with the newer water quality data. Ken Heim asked about what data is available for GIS coverages such as land use. Integral Consulting has organized several GIS coverages for developing the new Watershed Plan and will send all the information to Ken H. Kelly DiNatale also suggested contacting FRICO because they have generated some GIS maps in the past around the reservoirs. Ken Heim said that he would contact Russ at FRICO.

Kelly DiNatale did warn that there have been some major changes in the watershed recently, specifically the change in irrigation patterns. Starting in 202, there has been less wells pumping to irrigate land between Barr and Milton. Laurie Rink suggested that their might be more detailed and up to date information for irrigated land and crop types from the Colorado Decision Support System website. Kelly NiNatale and Ken Heim both found the website and located the link to irrigated acreage coverage.

Laurie Rink also made aware to Ken Heim that FRICO remapped and calculated the bathymetry of both reservoirs and will send that data to him. Laurie R. also wanted to make sure that ENSR was aware of and was including in the modeling the newly installed Beebe Pipeline that pumps Platte water over to the Burlington Ditch. Laurie Rink also suggested getting a hold of discharge permits and discharger monthly reports (DMRs).

Kelly DiNatale also suggested that the recent Segment 15 restoration study funded by Metro be shared with ENSR. Specifically, the hydrology chapter explains much of how the water flows through the system.

Ken Heim stated that he initially needs GIS coverages such as soil type, land use, slopes, and others to set up the model. Once this is all been established for the watershed, the spot checking comes later when it gets to looking at flows and water quality data and for the calibration of the model.

4. Update BMW WQ Database

Alice Wood will be send all of the final data sets to Hydrosphere by the end of March. It will then take most of April for Hydrosphere to update the BMW WQ database. By the end of April, the database will be ready for ENSR.

This still works well with the schedule. Steve Lundt recommended that the first workshop be moved to June and have it be apart of the annual watershed tour. ENSR agreed to have the first workshop in June to talk about modeling selection.

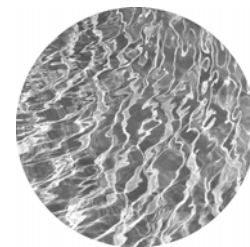
5. Next Meeting

Technical meetings will be on the 4th Thursday of each month. Next meeting will be April 26 at 10:30 at Metro.

NEWS: The final contract from ENSR has been signed by BMW Association, approved and signed by ENSR, and is being mailed back to BMW Association.

Barr/Milton Watershed Association

Technical Committee



BMW Technical Committee Meeting
 Thursday, April 26, 2007
 Metro Wastewater Reclamation District, Administration Building
 10:30pm – 12:00pm

Committee Meeting Notes

1. Attendance

Steve Lundt (Metro)	Dave Pillard (ENSR, phone)	Laurie Rink (FRICO)
Kelly DiNatale (CDM, phone)	Chris Piper (Denver Water)	Ken Heim (ENSR, phone)
Todd Harris (Metro)	Jim Dorsch (Metro)	Alice Wood (Integral)

2. Reservoir Assessment

Steve Lundt stated that the FRICO flow data that was promised for the end of March still has not been delivered so there is nothing new to report for the reservoir assessments. Both Laurie Rink and Kelly DiNatale agreed to talk with FRICO employees about this issue of getting the updated flow info. We need to start pressuring them more to make this flow data a priority for them.

3. Water Quality Modeling

Kelly NiNatale suggested sending to Ken Heim the massive spreadsheet of data for the Segment 15 study done by Metro that is about 25 MB in size. Also, Kelly D. has sent to Ken Heim the map from the technical memo. Ken Heim has been studying the flow system for the watershed and has put together a flow diagram. Ken Heim has been sent the flow diagram to Kelly D. for input and will e-mail it out the rest of the Technical Committee. Ken Heim has looked over all the datasets and GIS coverages that he has received. Ken Heim received great information from the Colorado Decision Support System website (e.g. irrigated acreage coverage). Ken Heim has also been working on a straight-line map of the river system that will also be incorporated into the watershed model.

The next major task is to define and delineate the sub-watershed basins. The current sub-watershed map is based strictly on topography but this might need to be changed to include man-made diversions and other policy related issues. Ken Heim also requested flow and chemistry data from all of the upstream reservoirs.

It was unanimously agreed by the Technical Committee to go with the most recent version of SWAT, which will be available in 2-4 weeks. This delay is timely because of the needed work to be done still with defining the sub-watersheds, the flow diagram, and finishing the water quality database update.

Steve Lundt read an e-mail from Joni Nuttle that talked about the Division's concerns about using the SWAT model. From Joni dated 04-25-07:

We (the State) have not done a thorough review of the BMW data, but we did a quick "back of the envelope" analysis based on the Barr Lake assessment reports from Hydrosphere. The Hydrosphere assessment indicates that 93% of the TP load to Barr Lake is from the Burlington Ditch. Our results suggest that approximately 85% of the TP at the Burlington Headgate is from point sources. Furthermore, the State's calculations indicate that downstream from Sand Creek, approximately 60% of the load carried in the Burlington Ditch is from MWRD. Therefore, the TP load carried in the Burlington Ditch is primarily from point sources, rather than non-point sources.

Our understanding of the SWAT model recommended by ENSR is that it is a land-use based model that looks for non-point sources and focuses on management of these.

Based on the relative contributions determined from the State's "back of the envelope" analysis, the State suggests that the BMW be cautious of an investment of modeling effort that is heavily weighted in precision of land use and non-point sources, etc.

The State assumes the BMW consultants have reviewed the Hydrosphere assessments and data, and can offer some perspective on this issue.

Steve Lundt stated that he did respond to Joni explaining that the assessments are in draft form and no loading calculations should be done with them until they are finalized. It is true that point source plays a major role but we want to also understand the nonpoint source so we need to do a watershed model that can handle both point and nonpoint sources. Chris Piper ask Ken Heim if SWAT is inferior to other surface water models when it comes to handling point sources. Ken Heim said no. SWAT can do point source also. The 1-D, surface water models are much easier but not any better at modeling point sources. With the SWAT watershed model, we will model point sources the same and also include nonpoint sources. Understanding nonpoint sources is important, especially in the future when nonpoint sources will be come larger as development increases, plus they will need to be included if there is a Control Regulation placed on the reservoirs. Chris Piper then stated that if need be, the BMW group could always go back later and also do a surface water model to focus just on point sources.

Laurie Rink stated that many of the point source stakeholders feel that it is important to have the nonpoint source component in the model so that it can be thoroughly reviewed and given appropriate attention. Laurie Rink also gave some background information about how the State is now depending on the modeling to help determine the nutrient standards for the reservoirs. The timing of the state's nutrient criteria work may not make with our modeling schedule and that is why they would prefer to see in-reservoir modeling done first.

It was suggested by Ken Heim and Kelly DiNatale to have Ken Wagner speak in person to Joni Nuttle at the NALMS conference in Chicago.

4. Update BMW WQ Database

After Dave Pillard and Ken Heim got off the phone, the committee talked about the request from Hydrosphere for additional funds to complete the database update. Hydrosphere has requested \$5,900 to complete the update and this 66% increase from the original price of \$8,918 is due to 23 data sources that have come in. The statement of work originally covered up to 15 sources. Chris Piper stated that we need to question this and request more information from Hydrosphere. It also seems that Hydrosphere should have contacted us sooner about this issue. There also might be a misunderstanding about whether or not it is data sources or data sets. Metro is counted 4 times this time while they were counted only once when the database was first put together. Overall, the technical committee needed more information from Hydrosphere before making a decision. It was agreed that Steve Lundt would send an e-mail to Hydrosphere (Jean Marie Boyer) summarizing the committee comments and asking for more information about why there is a need for \$5,900.

Jim Dorsch felt that the additional time it has taken Hydrosphere is not the BMW association's problem and that Hydrosphere should have contacted BMW much sooner about this issue.

Alice Wood stated that if there was a need to save money because of this additional cost for the database, then it might be better to not update the database in 2008 and wait a year to do another data request and update. Alice also reminded the committee that Integral has worked on this update and money has also gone to Integral.

Jean Marie did update Steve Lundt that there are just 4 questions that need to be answered and once they are answered, it would take only 2 weeks to finish the database. Jean Marie did mention that Alice Wood has done a great job working with them.

5. Next Meeting

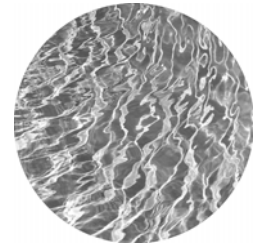
Technical meetings will be on the 4th Thursday of each month. Next meeting will be May 22 at 10:30 at Metro.

NEWS: The final contract was signed by all parties but somehow was lost in the mail. Dave Pillard said that he has not received it but will look for it again. Laurie Rink did mail it back several weeks ago, FedX. If it does not show up, then a new copy of the contract will be signed.

Alice Wood also requested to Dave Pillard that invoices include a “% Complete” and a “Status” column next to each task item. That way we know how close we are on the budget and when items are official done. Dave Pillard agreed to look into it with their billing department and that it should not be a problem to add those two items to the invoices.

Barr/Milton Watershed Association

Technical Committee



BMW Technical Committee Meeting
Thursday, April 26, 2007
Metro Wastewater, Administration Building
10:30pm – 12:00pm

Agenda

1. Reservoir Assessment

- a. Update on FRICO flow data to Hydrosphere
- b. What to next?

2. Water Quality Modeling

- a. Data Gathering Update
 - Further Data needs
 - What GIS Platform to go with and our recommendation
- b. SWAT Model Selection
 - CDPHE's comments
- c. Schedule Update

3. Update BMW WQ Database

- a. Overview of the update
- b. Future updates using the Colorado Data Sharing Network

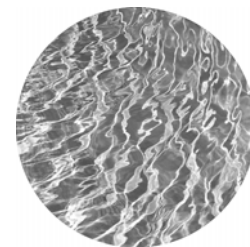
4. Organize for June 26th Workshop Meeting

5. Next Meeting

- a. May 24th, 10:30am

Barr/Milton Watershed Association

Technical Committee



BMW Technical Committee Conference Call
 Wednesday, May 16, 2007
 Metro Wastewater Reclamation District, Administration Building
 1:00pm – 2:00pm

Committee Conference Call Notes

1. Called In

Steve Lundt (Metro)	Dave Pillard (ENSR, phone)	Chris Piper (Denver Water)
Ken Heim (ENSR, phone)	Todd Harris (Metro)	Alice Wood (Integral)

Laurie Rink and Kelly DiNatale provided comments via e-mail and phone before and after the meeting to do scheduling conflicts.

2. Flow Diagram and Sub-watershed Map Discussion

Ken Heim updated everyone on how the flow diagram and sub-watershed map figures were made. Ken Heim took Figure 1-2 Hydrology Overview Map from the BMW watershed plan and the Division 1, District 2 Colorado Division of Water Resources' flow chart and generated a new flow diagram with the major source, transfers, and consumptions. Ken Heim explained that with ditch diversions, it complicates the watershed model approach because the typical uphill sub-watershed does not necessarily flow downhill into the next logical sub-watershed. The ditch diversions create a higher level of complexity to represent on paper how and where water goes throughout the Barr/Milton watershed.

Then Steve Lundt, Todd Harris, and Alice wood went over their comments for the flow diagram, starting with going down the S. Platte River.

Comments on the Flow Diagram

General:

- Consumptive use term means the water leaves the watershed permanently. Consumptive has some water rights meaning so we asked to change the term.
- The big question was how to handle some of the irrigation withdrawals. Do they return to a sub-watershed downstream or does the majority of the water get used up. Some of the irrigation withdrawals may be labeled as consumptive (e.g. Platteville ditch, little Burlington).
- Laurie Rink ask about how we are going to handle deciding which of the 42 permitted dischargers gets to be included on the flow diagram and the modeling.

S. Platte:

- Add Centennial WWTP just downstream of Chatfield
- Add Littleton/Englwood WWTP downstream of Bear Creek
- Add Glendale WWTP to the Cherry Creek
- Remove Aurora Reservoir since it does not release to Sand Creek
- The Beebe Pipeline needs to be changed to a transfer line and it enters the O'Brien just before the Denver-Hudson consumptive use
- Lupton Bottom needed to be moved down to just downstream of Brighton WWTP
- Lupton Bottom returns either Big Dry Creek and/or Little Dry Creek
- Initial thought was to delete Little Dry Creek but then Laurie Rink stated that if flows year round and it is the return for Lupton Bottom.
- Add Meadow Island #1 as a consumptive use between Big and Little dry creek
- Separate Platteville ditch from the Platte Valley Canal

- Add Evans #2 off of the Platte Valley Canal as a consumptive use
- The Platte Valley Canal enters Milton directly, not into the Beebe Draw

O'Brien Canal:

- Move Metro pumps below Thornton
- Change name of Metro pumps to Denver water pumps
- Move little Burlington withdrawal between first and second creek
- South Adams consumptive use is from the Little Burlington and not the O'Brien Canal
- Need to delete Burlington Canal irrigation withdrawal
- Told Ken Heim that future modeling for Horsecreek and Prospect reservoirs may occur. Ken H. said that he can account for that and provide linkage at the Denver-Hudson consumptive use site

Barr/Beebe:

- Move the Neres Canal down to the East Valve and it is a consumptive use
- East Valve splits into the Neres and the East Burlington
- West Valve splits into the Speer Canal and west Burlington
- The Bowles irrigation withdrawal splits off to the west from the Beebe Draw
- Need to add the Lochbui WWTP on the Beebe Draw
- Need to add the Hudson WWTP on the Beebe Draw downstream of the Lochbui one

Comments on the Flow Diagram

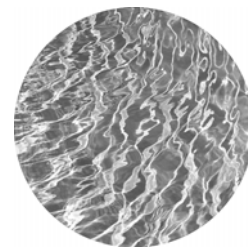
- Change little dry Creek name to Clear Creek
- Change Metro Wastewater to just Metro

Ken Heim will make all the changes and then send back out the map and flow diagram for discussion for next week's technical committee meeting on May 24th. The group will probably come up with more comments then.

Timing is still okay since we are waiting on the water quality database, getting flows to Ken Heim, and waiting for the release of the most recent version of SWAT.

Barr/Milton Watershed Association

Technical Committee



BMW Technical Committee Meeting
Thursday, June 28, 2007
Metro Wastewater, Administration Building
10:30pm – 12:00pm

Agenda

1. Reservoir Assessment

- a. Barr flow data completed
- b. Waiting on Milton Flow data

2. Water Quality Modeling

- a. Feedback from Workshop #1
- b. Summary of meeting with Denver Water
 - Ditch Return estimates using PACSYM
- c. Go over data inventory spreadsheet
 - BMW Water Quality Database status
- d. Prioritize point sources
- e. Finalize Flow Diagram

3. Flow Monitoring for Milton Reservoir

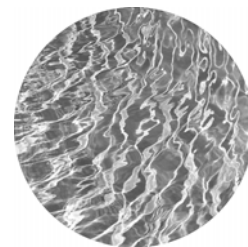
- a. FRICO plans to install flow stations??

4. Next Meeting

- a. July 26th, 10:30am At Metro Wastewater

Barr/Milton Watershed Association

Technical Committee



BMW Technical Committee Meeting
Thursday, July 26, 2007
Metro Wastewater, Administration Building, Conference Room A
10:30pm – 12:00pm

Agenda

1. Reservoir Assessment

- a. Barr Lake
- b. Status on Milton's Flow data

2. BMW Water Quality Database

3. Water Quality Modeling

- a. Approval of Final Flow Diagram
- b. Data Request
 - Ft. Lupton WWTP flow and WQ (2000 – present)
 - Lochbuie and Hudson “
 - Metro pumping WQ
 - Flows for E. Neres, Englewood, Bowels, West & East Burlington, east valve to Beebe Canal, Neres, and Speer
 - Arapahoe and Cherokee inflow and outflow and WQ
 - Beebe Pipeline flows (-104 52'32.2", 39 54'47.03")
- c. Modeling Assumptions to delineate the Sub-watersheds
 - How to handle the S. Platte ditches
 - How to handle the Barr-Milton ditches
 - Return/partial-return flows
 - Withdrawals to another watershed, but groundwater returns back to original watershed
 - Withdrawals from the study area but groundwater returns back

4. Flow Monitoring for Milton Reservoir

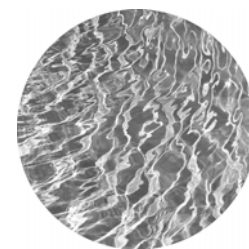
- a. Draft a letter request a plan of action

5. Next Meeting

- a. Aug 23rd, 2007, 10:30am at Metro Wastewater

Barr/Milton Watershed Association

Technical Committee



BMW Technical Committee Meeting
 Thursday, August 23, 2007
 Metro Wastewater Reclamation District, Administration Building
 10:30am – 12:00pm

Committee Meeting Notes

1. Attendance

Jim Dorsch (Metro)

Laurie Rink (FRICO)

Chris Piper (Denver Water)

Todd Harris (Metro)

Alice Wood (Integral)

Joni Nuttle (CDPHE-WQCD)

2. Reservoir Assessment Update

Alice Wood stated that she has no new information from Jean Marie Boyer (Hydrosphere). The last that Alice and Jean Marie spoke, Jean Marie was waiting for Burlington Ditch water quality data from Metro before she could continue work. Jim noted that he thinks that Steve Lundt is still working on preparing the Burlington Ditch data for Hydrosphere. Steve is out sick this week.

→ Alice will call Jean Marie to check in.

Todd Harris stated that Metro will install a permanent sampling station to collect Burlington Ditch data. Metro will have to cut through a cement line to put in a sampling point. This point will be located upstream of Metro's permit point. It will likely be monitored bi-weekly whenever the pumps are running. The sampling point will be installed before the pumps start running, in October or November of this year. Everyone agreed that this is good news and that the data will be useful to the BMW Association.

Watershed Plan (related to Reservoir Assessments)

Laurie Rink pointed out that the delay in completion of the Reservoir Assessments will significantly delay completion of the 2007 updates to the Watershed Plan, and will at this point prevent the group from submitting the Plan within their planned schedule (release of the final 2007 Plan in January 2008).

→ The Watershed Plan Committee might consider only updating those chapters which can be updated at this point, and releasing only those chapters as updates at this time. To clarify this with readers, a clear cover letter would go out with the revised chapters to explain which portions of the 2006 Plan should be replaced with the updates. The letter would also present a timeline for updates which are still expected. At this time, significant updates are expected for Sections 4, 6, and 7. Edits for Section 5 will be dependent on completion of the Reservoir Assessments.

→ Joni Nuttle thought that this might be a possibility for the group, but will have to discuss it with Randy and review the grant requirements.

→ Alice will call Randy to discuss this, and will make it a primary topic for the next Watershed Plan Committee meeting.

3. Water Quality Modeling

All present at the meeting carefully reviewed the final Flow Diagram and the "Inventory of Water Inflow/Outflow and Water Quality Data" spreadsheet.

→ One minor change was noted for the Flow Diagram: the Ft. Lupton WWTP discharge inflow should be moved over to the West side of the South Platte River line.

→ Several changes were made to the inventory spreadsheet. Alice will update this spreadsheet and send out a revised version.

Alice gave an update on the missing WWTP data. We received DMR data from Hudson WWTP from 2004 – 2007. This includes flow and some water quality data. The data is in hardcopy format.

→Jim noted that the Metro intern could do data entry. Alice will follow up with Steve.

The Lochbuie WWTP data has been sent to Ken Heim. This is in several spreadsheets with notes from Karen Frarck at Lochbuie. Ken should be in touch with Alice with any questions about this data and Karen will be contacted to clarify. Alice has not been able to reach anyone at OMI regarding Ft. Lupton data. She downloaded NPDES data from the EPA online system. This is monthly flow and water quality data from 2006 – 2007. All of this WWTP data has been sent to Ken Heim.

4. Flow Modeling for Milton Reservoir

Laurie gave an update on new FRICO monitoring stations. The flow monitoring station for Milton Reservoir will be installed. Stations will be installed at the Burlington/O'Brien canal (inflow flow rate only) and at the Beebe Canal (outflow flow rate only). New gauges will also be placed at the Milton inlets for the Beebe Canal and the Platte Valley Canal.

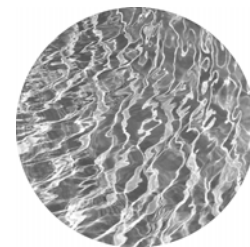
→There is no need to finalize or send the draft letter requesting FRICO to install flow monitoring stations at Milton.

→Instead, the BMW Association should draft a letter thanking FRICO for taking these measures and clearly stating our understanding of the locations of the new stations, what will be monitored, and when this monitoring will start happening. The letter might also state how/when this data will be shared with the BMW Association.

→Laurie and Steve will work together on this.

Barr/Milton Watershed Association

Technical Committee/Watershed Plan



BMW Technical & Watershed Plan Committee Meeting
Thursday, September 27, 2007
Metro Wastewater, Administration Building, Conference Room A
10:00am – 12:00pm

Agenda

1. Reservoir Assessment Update

- a. Barr Lake Assessment Status
- b. Status on Milton's Flow Data

2. Water Quality Modeling

- a. SWAT2005 Setup and Update by Modeler
- b. Data Needs
 - WWTP flow and WQ (Ft. Lupton, Lochbuie, Metro, and Hudson)
 - Various ditch flows

3. Watershed Plan

- a. How do Res Assessment & Modeling schedules impact Watershed Plan schedule?
- b. How to approach 2007 edits?
 - Only re-do chapters 4, 5, 6, & 7?
- c. Figures & Plots
 - What figures/figure updates do we now want for the Watershed Plan?
 - Are there additional figures/figure updates that the Tech Committee would like to have?

4. No Pumping Effluent Idea for 2007-2008 Fill Season

- a. Discussion and Recommendation on Approach
- b. Next Step

5. Colorado Data Sharing Network

- a. How can BMW Help and Benefit from this Data Sharing Project

6. Watershed Plan

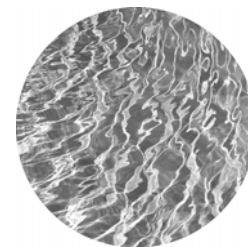
- a. Section progress check-in
- b. Path forward

7. Next Meetings

- a. Tech. Committee, October 25, 2007, 10:30am to Noon at Metro Wastewater
- b. Watershed Plan -

Barr/Milton Watershed Association

Technical / Watershed Plan Committee Joint Meeting



BMW Committee Meeting
 Tuesday, October 23, 2007
 Brighton Recreation Center
 11:00am – 12:00pm

DRAFT Committee Meeting Notes

1. Attendance

Laurie Rink (FRICO)	Steve Lundt (Metro)	Joni Nuttle (CDPHE-WQCD)
Alice Wood (Integral)	Darcie Garland Renn (Integral)	Ken Heim – ENSR (call-in)

2. Reservoir Assessment Update

Laurie talked to Jean Marie to discuss assessment additional funding request. She also sent ModFlow (groundwater model used by Dwayne Helton, FRICO modeler) results to Hydrosphere. Jean Marie will reply with cost estimate and fixed contract for remediation. Milton flows will be ready at the end of October.

IDEA → Watershed tour of Rockies stadium storm water discharge and treatment.

3. Database

QA/QC

Ken Heim found that the database was missing some WWTP data. Hydrosphere is working on fixing this error and the revised database is expected by the end of this week. The group discussed the possibility of the Tech Committee to QA/QCing the database to make sure that all submitted data is in the database and is properly categorized (e.g. active/inactive stations). Alice stressed the need to have a list of all data that has not been incorporated into the database that includes the reason why it was not brought in.

Data Sharing Network (DSN)

The group talked over the idea of using the DSN as a replacement for the Barr/Milton database. It was decided that the DSN is not established enough to rely on at this time. The group will continue updating and managing their own database until the end of the grant.

- How to support DSN in the meantime?
- SPCURE gave them a donation (?).
- ACTION ITEM → Alice/Darcie/Steve will put this on the Board agenda for the 11/27/07 meeting.
- ACTION ITEM → Alice: Get specific dollar request from Sarah Sauter.

Database Updates

The group discussed how to approach the 2008 updates to the database. Currently, Integral is contracted to request data and incorporate it into the database. If BMW

was to follow last year's schedule, data requests would begin in December 2007. This brought up several points of discussion:

- Determine when database will be updated by asking the ENSR modelers when they need our data. Current cycle: request 12/07, update done by 6/08.
 - Ken Heim: for the purposes of developing and calibrating the model, the current database (following filling the data gaps, which Steve is working on) has all of the data that they need. They do not need more data for modeling. More data might be needed by the group later for monitoring and evaluating the success of management measures.
 - Ken Heim: IDEA → Give the database a function to calculate statistics.
- What should go into the database? Should it just be the data that is needed for modeling/monitoring? Or should it be all data that we can compile, in an effort to have an established database for the future, in case other water quality issues arise?
- ACTION ITEM → Continue this discussion at next Tech Committee meeting
- ACTION ITEM → Laurie will contact Ken with "for sure" location of Bowles Seep inflow.

4. Modeling

Ken Heim reported that the model framework has been set-up and the "data gaps" of point source data is are being obtained by Steve Lundt. The drop deadline for all data is at the end of October in order to be ready for the planned December 11 modeling workshop.

Steve is getting flows (daily mean, monthly in some cases) and water quality data from all wastewater treatment plants. He is updating the data request contact list, as he makes new contacts.

ACTION ITEM → Steve and/or Alice will be in touch with Ken in early November to see if the December 11 meeting date can be met.

5. Watershed Plan

Text Updates

The updated text (Sections 4 – 7) will be released via the website. The updated figures will be released this way, also. Alice has been in touch with Blair and will work with him on Section 4 once the revised database is made available by Hydrosphere. The authors will try to stick to the planned schedule (below); however, the NALMs conference might push this back by about 1 week.

- Nov 2 → revised sections to Alice
- Nov 9 → Alice sends compiled revised sections to stakeholders for review
- Nov 28 → deadline for stakeholder comments
- Nov 29 → next WPC meeting; review stakeholder comments
- Dec 7 → final edits complete; revised text and figures/tables released electronically

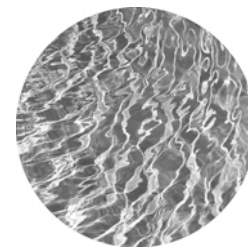
State of the Watershed Report

Steve is working on an outline/first draft of the *State of the Watershed* report. The group will target releasing hardcopies of the report and template presentations at the February Stakeholder meeting, with Steve giving a trial run of the presentation at the January Board meeting (this follows the Watershed Plan Executive Summary

schedule of last year). Steve and the Tech Committee will work closely with the I/E Committee to format the report.

Barr/Milton Watershed Association

Technical Committee/Watershed Plan



BMW Technical & Watershed Plan Committee Meeting
 Thursday, November 15, 2007
 Metro Wastewater, Administration Building, Conference Room A
 10:00am – 12:00pm

Agenda

1. Ongoing/New Business Items

- a. No Pumping Effluent Idea for 2007-2008 Fill Season (Steve)
- b. FRICO new flow measurement points installation (Laurie)
- c. Metro Burlington Ditch discharge point installation (Steve)
- d. CAFO/AFO database (Alice)

2. Reservoir Assessment Update

- a. Barr Assessment Status
- b. Milton Flow Data & Assessment Status
- c. Hydrosphere additional funding request
 - Discuss and make recommendation for the Board

3. Database Update

- a. Update on missing data and database corrections
- b. QA/QC –Tech Committee continued discussion
 - Database (immediate)
 - Model and other technical products (longer term)
- c. Looking ahead to 2008 – when/what/how to update database?

4. Water Quality Modeling

- a. Modeling status update
- b. Data gaps remaining?
 - Xcel data?
- c. Planning for Modeling Workshop #2 – December 11, 9:00 – noon, Brighton Rec Center
 - Are we ready for the workshop?
 - Work out workshop agenda outline with Ken Heim

5. Watershed Plan – New and Revised Figures

- a. Final review of new/revised figures
- b. Tables → will be re-released online with figures
- c. Figures/tables → released online ASAP
 - Will keep draft footer on all

6. Watershed Plan – Text Updates

- a. Develop new schedule
 - Nov 26 → revised sections to Alice
 - Nov 30 → Alice sends compiled revised sections to stakeholders for review

- Dec 14 → deadline for stakeholder comments
 - Dec 18 → next WPC meeting; review stakeholder comments
 - Dec 28 → final edits complete; revised text and figures/tables released electronically
- b. Section progress check-in
- Section 4 – Blair
 - Section 5 – Laurie
 - Section 6 – Steve
 - Section 7 – Alice/Darcie

7. State of the Watershed Report

- a. Status update
- b. Needs → data, figures, tables, editing, formatting
- How to team with Tech and I/E Committees?
- c. Logistics → printing, distribution, etc.
- d. Schedule
- Release in January for stakeholder review
 - Develop PowerPoints in January
 - January 22 → present PowerPoint at Board meeting
 - February 26 → release final report and presentation at Stakeholder meeting

8. Next Meetings

- a. Tech. Committee: _____
date / time/ location
- b. Watershed Plan Committee: _____
date / time/ location
- c. Set up 2008 meeting schedule
- Tech Committee: 4th Thursday of each month?
 - Watershed Plan Committee: _____
?????