

**CITY OF BOULDER, COLORADO  
BOARDS AND COMMISSIONS MEETING MINUTES**

<b>Name of Board / Commission:</b> Water Resources Advisory Board	
<b>Date of Meeting:</b> 18 April 2016	
<b>Contact Information of Person Preparing Minutes:</b> Rene Lopez 303-413-7149	
<b>Board Members Present:</b> Dan Johnson, Mark Squillace, Lesley Smith, Mike Barnes, Kirk Vincent <b>Board Members Absent:</b> None	
<b>Staff Present:</b> Jeff Arthur, Director of Public Works for Utilities Joe Taddeucci, Water Resources Manager Douglas Sullivan, Acting Principal Engineer for Water, Wastewater and Stormwater Ken Baird, Utilities Financial Manager Annie Noble, Acting Principle Engineer for Flood and Greenways Pieter Beyer, Civil Engineer Christin Shepherd, Civil Engineer Ward Bauscher, Engineering Project Manager Russ Sands, Water Sustainability and Outreach Supervisor Brett Linenfelser, Water Quality & Environmental Services Manager Candace Owen, Stormwater Quality Engineer Chris Douville, Wastewater Treatment Manager Rene Lopez, Board Secretary <b>Consultants Present:</b> Craig Jacobson, Icon Engineering David Skuodas, Urban Drainage and Flood Control District	
<b>Meeting Type:</b> Regular	
<b>Agenda Item 1 – Call to Order</b>	<b>[7:01 p.m.]</b>
<b>Agenda Item 2 – Approval of the 28 March 2016 Meeting Minutes</b> Motion to approve minutes from 28 March 2016 as amended. <b>Moved by:</b> Squillace <b>Seconded by:</b> Barnes <b>Vote: 4:0 Board Member Vincent ineligible to vote</b>	<b>[7:03 p.m.]</b>
<b>Agenda Item 3 – Swearing in of new WRAB Member</b> <b>Kirk Vincent sworn in as new WRAB member</b>	<b>[7:04 p.m.]</b>
<b>Agenda Item 4 – Election of Officers</b> <b>Chair – Dan Johnson</b> <b>Moved by:</b> Squillace <b>Seconded by:</b> Smith <b>Vote: 5:0</b> <b>Vice Chair – Mark Squillace</b> <b>Moved by:</b> Johnson <b>Seconded by:</b> Barnes <b>Vote: 5:0</b> <b>Secretary – Lesley Smith</b> <b>Moved by:</b> Barnes <b>Seconded by:</b> Squillace <b>Vote: 5:0</b>	<b>[7:05 p.m.]</b>
<b>Agenda Item 5– Public Participation and Comment</b>	<b>[7:10 p.m.]</b>
<b>Public Comment:</b>  Elizabeth Black – Four mile canyon creek. Four mile canyon creek is on an alluvial fan, major earth moving in open space needs to occur to create a spill-proof channel Channel clearing and remodeling requested in the area. Four schools in the spill zone and none of them have a second story to climb to safety. Requesting Violet and Upland culverts sized to pass 100 year floodwaters Requesting a larger debris detention area in the violet park site Broadway culvert is grossly undersized, and needs to be replaced to a 100 year flood level.	
<b>Motion proposed by board member Smith to move the Four Mile Creek</b> <b>Mitigation item to after public comment</b> <b>Moved by:</b> Smith <b>Seconded by:</b> Barnes <b>Vote: 5:0</b>	<b>[7:15 p.m.]</b>

**Matters from staff – Four mile canyon creek mitigation**

[7:15 p.m.]

Christin Shepherd and Ward Bauscher presented this item.

**WRAB Discussion Included:**

- Questions regarding the storm capabilities of the proposed plan
- Questions regarding modeling accounting for sediment loads
- Comments regarding Crest View Elementary
- Greenways Advisory Committee meeting – May 17<sup>th</sup>

**Agenda Item 6 – Information Item – Stormwater Collection System Master Plan Update**

[7:43 p.m.]

Pieter Beyer presented this item.

**Executive Summary from the Packet Materials:**

Utilities staff is in the process of completing an update to the City's 2007 Stormwater Master Plan (SMP). The new Stormwater Master Plan will replace the previous document. The 2007 SMP included a new GIS based hydrologic model, a comprehensive analysis of the existing storm sewer system, and a list of prioritized recommendations for the City's Stormwater and Flood Management Utility CIP. The

2016 SMP was undertaken to review the need for improvements in the smaller diameter storm sewers as well as the need to expand the storm sewer system into areas that are currently not served or underserved by storm sewer infrastructure. The 2016 SMP is therefore an evolution in the City's approach to master planning by also considering expansion of the storm sewer system in addition to addressing existing assets. The 2016 update attempted to integrate the flood inundation data received following the September 2013 flood event and the May 2015 significant rainfall event.

The new master plan will also include recommendations for steps that need to be taken to ensure compliance with the City's revised CDPHE municipal separate storm sewer system (MS4) permit which authorizes the City to discharge stormwater from storm sewers and City facilities. The revised MS4 permit was reissued in 2016 with significantly expanded regulatory requirements. The 2016 master plan recommendations include a total of 10 new Tier 1 high priority projects to address drainage issues in underserved areas of the City. These 10 projects have an estimated cost of approximately \$15 M. In 2007, the SMP identified four Tier 1 projects that represented hydraulic deficiencies, with a total estimated cost of approximately \$20 M. Two of the original projects are located in the vicinity of the 10 projects identified in the 2016 SMP. Several programmatic changes to the City's Water Quality and Environmental Services programs to address permit compliance issues are also recommended.

**WRAB Discussion Included:**

- Questions regarding current discharge locations for stormwater
- Questions regarding capturing stormwater near Broadway and Violet
- Coordinating projects with other departments for cost sharing
- Budgeting questions for the upper goose creek
- MS4 permit impacts

**Agenda Item 7 – Information Item – Wastewater Collection System Master Plan Update**

[8:26 p.m.]

Pieter Beyer presented this item.

**Executive Summary from the Packet Materials:**

Utilities staff is in the process of completing an update to the City's 2009 Wastewater Collection System Master Plan (WWCSMP). The new master plan will replace the previous document. The 2009 WWCSMP included a GIS based hydraulic model, a comprehensive analysis of the existing sanitary sewer system, and a list of prioritized recommended projects for the City's Wastewater Utility CIP. The 2016 WWCSMP was undertaken to revise the sanitary sewer system hydraulic model, to include recently acquired flow monitoring data, and to incorporate inspection information regarding flow diversion structures in the upstream collection system. The 2016 update also considers the collection system performance during and since the 2013 flooding. The master plan recommendations include a total of 11

CIP projects – four high priority Tier 1 projects, and seven medium priority Tier 2 projects. These 11 projects will replace the recommended projects identified in the 2009 WWCSMP. These collection system projects will be incorporated into the Wastewater Utility Fund CIP next month once the final draft of the master plan is completed.

**WRAB Discussion Included:**

- Comments regarding coordinating with transportation projects
- Discussion regarding the capacity in storm events
- Comments regarding handling excess capacity into the wastewater treatment facility
- Discussion regarding stress points and prolonged exposure on inflows

**Agenda Item 8 – Information Item – Capital Improvements Program Overview [9:00 p.m.]**

Ken Baird presented this item.

**Executive Summary from the Packet Materials:**

As part of the city’s annual budget process, Utilities develops a six-year planning budget, this year for the time period of 2017 through 2022. The Water Resources Advisory Board (WRAB) role in this process is defined in the Boulder Revised Code: “. . . to review all environmental assessments and capital improvements conducted or proposed by the utilities division.” Within the budget process, City Council approves and appropriates funds only for the first year, 2017. This agenda item provides an opportunity for the WRAB to discuss early staff recommendations for changes to the CIP. Last year’s CIP is included for reference as Attachment A. Input from WRAB will guide staff in preparation of a draft CIP for discussion by WRAB at the May meeting. WRAB will be asked to make a recommendation to City Council regarding the 2017- 2022 CIP at its June meeting. The Planning Board will review the complete city CIP, including utilities, in July. City Council generally plans for two study sessions in September, prior to adopting the 2017 budget.

**WRAB Discussion Included:**

- Comments regarding grants
- Pipeline reserve fund discussion
- Wastewater Treatment Facility COGEN update

**Agenda Item 9 - Matters from Board: [9:30 p.m.]**

Squillace:

- Carter Lake Pipeline replacement
  - Regional cost sharing for water distribution infrastructure
  - Revenue generation with water leases

Johnson

- Questions regarding non-residential back flow device testing

**Agenda Item 10 – Matters from Staff: [9:59 p.m.]**

- Rain barrel legislation update
- Water main break claims update
- Water Supply Update
- Four Mile Creek mitigation [7:15 p.m.]
  - Matters from staff item Four Mile Creek mitigation was moved up in agenda to after public comment.

**Agenda Item 11 – Future Schedule [10:18 p.m.]**

Polling the board for summer schedules, August has a potential for 3 members only.

Master plan drafts for stormwater and wastewater for next month

Draft CIP for next month

Chief resiliency officer set to speak to the board next month

**Adjournment [10:25p.m.]**

There being no further business to come before the Board at this time, by motion regularly adopted, the meeting was adjourned at 10:25 p.m.

**Motion to adjourn by:** Squillace **Seconded by:** Barnes

**Motion Passes 5:0**

**Date, Time, and Location of Next Meeting:**

The next WRAB meeting will be **Monday, May 16<sup>th</sup> 2016 at 7:00 p.m.**, at the **City's Municipal Services Center, 5050 East Pearl St., Boulder, CO 80301**

APPROVED BY:

\_\_\_\_\_  
Board Chair

\_\_\_\_\_  
Date

ATTESTED BY:

\_\_\_\_\_  
Board Secretary

\_\_\_\_\_  
Date

*An audio recording of the full meeting for which these minutes are a summary, is available on the Water Resources Advisory Board web page.*

<https://bouldercolorado.gov/boards-commissions/water-resources-advisory-board-next-meeting-agenda-and-packet>