



## HIGHLAND CITY

### AGENDA AMENDED

#### HIGHLAND CITY WATER ADVISORY BOARD Tuesday, July 10, 2018, 7:00 a.m.

Highland City West Conference Room, 5400 West Civic Center Drive, Highland Utah

#### **CALL TO ORDER:** Tavis Timothy, Chair

- Attendance – Tavis Timothy, Chair

#### **APPROVAL OF MINUTES:**

1. Approval of the April 17, 2018 meeting minutes.
2. Approval of the February 6, 2018 meeting minutes

#### **PROJECT UPDATES:**

3. Update of the Pressurized Irrigation system - Jeff Murdock
4. Dry Creek pond Lehi – Mark Thompson
5. Report on metering of PI water – Brent Wallace

#### **DISCUSSION ITEMS:**

6. Water Conservation Education
7. Metering Grant Information

#### **OTHER BUSINESS:**

8. Board member terms identified.

#### **BOARD COMMENTS AND SUGGESTIONS:**

#### **ADJOURNMENT:**

NEXT MEETING: \_\_\_\_\_ at 7:00 a.m.

#### **CERTIFICATE OF POSTING**

The undersigned duly appointed City Recorder does hereby certify that on this **2nd day of July, 2018**, the above agenda was posted in three public places within Highland City limits. Agenda also posted on State (<http://pmn.utah.gov>) and City websites ([www.highlandcity.org](http://www.highlandcity.org)).

JoAnn Scott, Community Dev./Public Works Coordinator

- In accordance with the Americans with Disabilities Act, Highland City will make reasonable accommodations to participate in the meeting.
- Requests for assistance can be made by contacting the City Recorder at 801-772-4505, at least 3 days in advance to the meeting.
- The order of agenda items may change to accommodate the needs of the Board, the staff and the public.

**THE PUBLIC IS INVITED TO PARTICIPATE IN ALL CITY MEETINGS.**

1 **HIGHLAND CITY WATER ADVISORY BOARD**

2 **Tuesday, April 17, 2018, 7:00 a.m.**

3  
4 The Highland City Water Advisory Board met in a regular session on Tuesday, April 17, 2018 in  
5 the conference room at Highland City, 5400 W Civic Center Dr., Suite 100, Highland City,  
6 commencing at 7:00 a.m.

7  
8 **PRESENT:** Tavis Timothy, Conducting  
9 David Bunker  
10 Jim Horrocks

11  
12 **STAFF PRESENT:** Justin Parduhn  
13 Jeff Murdoch  
14 Van Bond (arrived at 7:10)  
15 JoAnn Scott

16  
17 **EXCUSED:** Jim Horrocks, Brent Wallace, Drew Sparks, Mark Thompson

18  
19 Tavis Timothy welcomed all present and called the meeting to order at 7:15 am.

20  
21 **APPROVAL OF MINUTES:**

- 22  
23 1. Review and action to approve minutes of the February 6, 2018 meeting.

24  
25 This item was tabled until the July 10, 2018 meeting for action.

26  
27 **PROJECT UPDATES:**

- 28  
29 2. Update of the Pressurized Irrigation system.

30  
31 Jeff Murdoch stated that the pressurized irrigation system is now loaded city  
32 wide. There were no major problems encountered when loading water into the  
33 system. To date the residents have not used a lot of water.

34  
35 Tavis asked what the allotment was from the Central Utah Project (CUP) this  
36 year. Jeff stated that he had been told that the allotment would be around 54%  
37 compared to last year which was 70% to 80%.

38  
39 Deer Creek reservoir is full and Highland City should have some carry over water  
40 from prior years. The water level from snow pack is projected to be the 3<sup>rd</sup> worse  
41 year since 1950 as of reports from March 1<sup>st</sup>.

42  
43 Jim Horrocks asked about the long-term projections for the pressurized irrigation  
44 system. Justin stated that the City is working with Tavis on a new Master Plan for  
45 the pressurized irrigation system that will address pressure zones.

46  
47 The City will be installing approximately 100 new meters throughout the City.  
48 From now moving forward all new residential lots will have a PI meter.

49  
50 Justin stated that there was a bill in the Utah Senate that would mandate the  
51 metering of secondary water in the future. While it did not pass this year, he felt  
52 that there would be a time in the future that metering became mandated. He also

53 stated that there are grants available that should be looked into to help purchase  
54 the meters.

55

56 Tavis stated that the system functions fairly well. When there is high use,  
57 pumping in the northwest area is required. The northwest water source is still an  
58 issue. A letter is being drafted to send to residents about water conservation and  
59 the watering schedule.

60

61 3. Dry Creek pond Lehi – Mark Thompson

62

63 This item was tabled to July 10, 2018 as Mark was not in attendance.

64

65 4. Report on metering of PI water – Brent Wallace

66

67 This item was tabled to July 10, 2018 as Brent was not in attendance.

68

69 **DISCUSSION ITEMS:**

70

71 5. Water Conservation Education

72 Tavis stated that Highland City is going to include conservation information and the Utah  
73 State recommended watering schedule in the newsletter.

74

75 Jim suggested that we use the mobile message board to promote conversation as well.

76 Justin stated that they would be able to do that at different times during the summer.

77

78 **OTHER BUSINESS:**

79

80 6. Board member terms

81 Tavis reviewed the terms for each of the board members with Brent Wallace being the  
82 most recent to be reappointed as of February 20, 2018. The City Council asked what the  
83 function of the board is. Tavis is going to make a presentation to the City Council in  
84 May providing information on each of the board members and some of the items that the  
85 board feels are important.

86

87 **BOARD COMMENTS AND SUGGESTIONS:**

88

89 No additional items were discussed.

90

91 **ADJOURNMENT: Jim move to adjourn at 8:00 am. The motion was seconded by  
92 David.**

93

94 NEXT MEETING: *July 10<sup>th</sup>, 2018 at 7:00 a.m.*

1 **HIGHLAND CITY WATER ADVISORY BOARD**

2 **Tuesday, February 6, 2018, 7:00 a.m.**

3  
4 The Highland City Water Advisory Board met in a regular session on Tuesday, February 6, 2018  
5 in the conference room at Highland City, 5400 W Civic Center Dr., Suite 100, Highland City,  
6 commencing at 7:00 a.m.

7  
8 **PRESENT:** Tavis Timothy, Conducting  
9 Mark Thompson  
10 Drew Sparks  
11 David Bunker

12  
13 **STAFF PRESENT:** Justin Parduhn  
14 Todd Trane  
15 Jeff Murdoch  
16 Van Bond (arrived at 7:10)  
17 JoAnn Scott

18  
19 **EXCUSED:** Jim Horrocks, Brent Wallace

20  
21 Tavis Timothy welcomed all present and called the meeting to order at 7:06 am.

22  
23 **NOMINATION OF CHAIRMAN AND VICE CHAIRMAN**

24  
25 **MOTION: Mark Thompson motioned to appoint Tavis Timothy as Chairman of the**  
26 **Board for the 2018 year.** Seconded by Drew Sparks.

27  
28 Yes - Tavis Timothy  
29 Mark Thompson  
30 Drew Sparks  
31 David Bunker  
32 Justin Parduhn  
33 Jeff Murdoch

34 Motion passes.  
35

36 **MOTION: David Bunker motioned to appoint Jim Horrocks as Vice Chairman of**  
37 **the Board for the 2018 year.** Seconded by Mark Thompson.

38  
39 Yes - Tavis Timothy  
40 Mark Thompson  
41 Drew Sparks  
42 David Bunker  
43 Justin Parduhn  
44 Jeff Murdoch

45 Motion passes.  
46

47 **APPROVAL OF MINUTES:**

- 48  
49 1. Review and action to approve minutes of the October 10, 2017 meeting.

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51 **MOTION: Mark Thompson motioned to approve the minutes of October 10, 2017.**

52 Seconded by David Bunker

53 Yes - Tavis Timothy

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Mark Thompson  
Drew Sparks  
David Bunker  
Justin Parduhn  
Jeff Murdoch

Motion passes.

**PROJECT UPDATES:**

2. Annual staff report of the culinary water system.

Van Bond stated that the culinary water usage was up in 2016 but down in 2017. Usage has typically been down over the past 10 years. Residents are averaging a little over 300 gallons per day. Mark asked if the downward usage trend was in part due to outdoor irrigation systems being converted to PI. Justin stated that there are now under 100 residents using culinary for outdoor watering. This transition is often made when homes sell and new owners see the value of the pressurized irrigation water. He further stated that it could also be that we are getting more new homes coming onto the system and diluting the numbers.

Van stated that new construction building permits and consequently connections have consistently been down the last 3 years. This may be in part due to the availability of developable area being reduced.

3. Annual staff report of the Pressurized Irrigation system - Jeff Murdock

Jeff Murdoch stated that there have been a number of meters installed on the PI system. He provided a spreadsheet to the board which showed the usage on those meters during the 2017 year. A Highland City Annual PI Sources chart was also provided to the board. It shows the water usage over the past 17 years and the allocation from each water source. Jeff stated that annual usage is trending up but he felt that with the growth Highland has seen, it is understandable.

Jeff stated that the water supply coming from the various sources last year was very good. The canyon flows were very good but he does not expect that this coming year (2018) we will experience the same conditions. He noted that even while the City stressed conservation, the trend was still up from the 2013 and 2014 years. There still needs to be a push for conservation even though we have seen some good snow pack and good water years.

David Bunker asked how many acre feet of water Highland City has in the CUP. Justin states that it is about 415 acre feet. David states that the CUP has a rolling average over 5 years. Justin indicated that the amount taken from the CUP is down because Highland City trades with Lehi and takes canyon water right into the PI pond. Lehi City then uses Highland City's water from Deer Creek through their diversion. Mark stated that this is a cost savings to us as there would not be a transmission charge.

Tavis presented a chart which showed a breakdown of the PI water usage based on the meters that were installed. The City also had meters on some of their own facilities. Some of the surrounding cities that meter their PI water have tiered

104 rates based on consumption. He stated that the cities felt that this was a good way  
105 to encourage conservation. In 2012 there was a surge of information focused on  
106 conservation of PI water. Since that time, we have not been as proactively  
107 promoting conservation and usage is now climbing. It appears that residents in all  
108 categories are over consuming.

109  
110 Drew Sparks asked what the average PI usage was for those residents which were  
111 metered. Tavis stated that it was between 5.5 and 6 acre feet per acre.

112  
113 Jeff stated that the City is collecting monies when developments come in to buy  
114 PI meters with the intent that at a time in the future, each resident would have a  
115 meter on their PI system.

116  
117 Justin indicated that he has a PI meter on his own system. He uses a smart  
118 watering system and his meter has shown that he is meeting the 3 acre feet criteria  
119 which is the basis for water share conveyance at subdivision development. Since  
120 the residents with meters on their PI systems are not aware that they are being  
121 metered, it is felt that this is an honest baseline of typical usage.

122  
123 Tavis stated that Weber Basin Water metered their PI usage as an educational way  
124 to promote conservation. Usage dropped by 35% and 40%.

125  
126 Tavis is concerned that Highland City residents are currently using what was  
127 estimated to be used at buildout. If consumption is going to remain at this level,  
128 we need to be collecting more and upgrading our distribution system to handle the  
129 delivery.

130  
131 Mark asked what the incentive is for conservation by the residents. He states that  
132 whereas money is not an issue for some of the residents based on their income  
133 there needs to be something that makes conservation a standard.

134  
135 David stated that until conservation is forced on the residents through metering  
136 and tiered rates, there will be no conservation. The population of Utah County  
137 will continue to grow and water will become more finite.

138  
139 4. Dry Creek pond Lehi – Mark Thompson

140  
141 Lehi City made a presentation in September 2017 giving an overview of what  
142 they are looking to do at the Dry Creek pond site. They indicated that the existing  
143 dam was not meant to hold water year round. They will be rebuilding the dam to  
144 size it for what their intent is with year round usage. Lehi City is working with  
145 Franson Civil on the use of this facility and where the water is coming into it will  
146 be coming from. There are currently 5 options of where to capture this water.  
147 They get 5/6th of the water from Alpine canyon. Approximately 70% of the  
148 water from American Fork canyon will go to Lehi. They are looking at options  
149 including trades and delivery options from various sources to transmit to this  
150 location.

151  
152 Lehi will need to refine where and how they are getting the water.

153 They are looking at the year 2019 before it comes online. They are also looking  
154 at funding options and sources.

155

156 Tavis asked if Highland would be maintaining property around pond. Mark stated  
157 that he would rather that Lehi take it and not put the boundary 1/2-way through the  
158 pond. With all emergency services required, Mark stated that he would rather that  
159 Lehi take it all. The City Council will need to evaluate whether Highland would  
160 have control over what happens there.

161

162 5. Report on metering of PI water – Brent Wallace

163 This item will be reported at the next meeting as Brent was not in attendance.

164

165 **DISCUSSION ITEMS:**

166

167 6. Water Conservation Education

168 Tavis stated that Highland City is going to include conservation in the newsletter and on  
169 Facebook regularly. Mark stated that the residents need to know that the usage is on  
170 average 5.56 acre feet per acre which is almost double what was calculated and conveyed  
171 at development.

172

173 There are some residents that will be willing to conserve. Most residents are ignorant to  
174 what they are ‘allowed’ or supposed to have and not that they are unwilling to conserve.

175

176 The City is also over irrigating. Perhaps it would be wise to meter the parks and city  
177 owned property and evaluate where the City is over irrigating.

178

179 David also asked that an addition column be added to the spreadsheet prepared by Tavis.  
180 The developments were assessed water based on the total acreage of the development yet  
181 the areas being watered are only the lots within that development and the park strips. The  
182 resident is only irrigating a portion of their lots. The footprint of the home and any other  
183 areas not watered should be taken into consideration. Their needs to be a margin allowed  
184 for this.

185

186 Public education needs to be conveyed on the transmission lines which were designed to  
187 water 24 hours a day but the majority of residents are watering within a 12 – 14 hour time  
188 period. Volume is not available. The peak time for the PI system is between 12:00 am –  
189 5:00 am

190

191 The residents know that it is going to be a low water year; we need to capitalize on that  
192 and reinforce conservation.

193

194 **OTHER BUSINESS:**

195

196 7. Board member terms

197 Tavis indicated that Brent Wallace term is now up. Mark has talked to him and he has  
198 expressed interest in staying on the board. This will need to be taken to the City Council  
199 for action.

200

201 **BOARD COMMENTS AND SUGGESTIONS:**

202



203 David states that while there has been information in the newsletter on conservation, we  
204 need to drive the idea home to the residents in a bigger and bolder way.  
205  
206 **ADJOURNMENT: David move to adjourn at 8:07 am. The motion was seconded**  
207 **by Mark.**  
208  
209 NEXT MEETING: *April 17<sup>th</sup>, 2018 at 7:00 a.m.*

DRAFT