



1 **PLATTE RIVER RECOVERY IMPLEMENTATION PROGRAM**
2 **Water Advisory Committee Meeting Minutes**
3 Nebraska Game and Parks Commission – Lake McConaughy Visitors Center
4 August 9, 2016

7 **Meeting Attendees**

9 **Water Advisory Committee (WAC)**

10 **State of Colorado**

11 Suzanne Sellers – Member

13 **State of Wyoming**

14 Bryan Clerkin – Member

15 Jeff Cowley – Alternate

17 **State of Nebraska**

18 Jessie Winter – Member

19 Colby Osborn

21 **U.S. Fish and Wildlife Service**

22 Tom Econopouly – Member

24 **U.S. Bureau of Reclamation**

25 Brock Merrill – Alternate

27 **Downstream Water Users**

28 Cory Steinke – Chair

29 Duane Woodward – Member

30 Jeff Shafer – Member

31 Landon Shaw – Member

32 Nolan Little

33 Tyler Thulin

35 **Colorado Water Users**

36 Jon Altenhofen – Member

37 Luke Shawcross

39 **Upper Platte Water Users**

40 Dennis Strauch – Member

42 **Environmental Groups**

43 Jacob Fritton – Member

44 Bill Taddicken – Member

45 Duane Hovorka – Member

9 **Executive Director’s Office (ED Office)**

Jerry Kenny, ED

Scott Griebbling

Sira Sartori

Kevin Werbylo

Seth Turner

George Oamek

21 **Contractors**

Matt McConville – HDR

Greg Kernohan – Ducks Unlimited



48 **Welcome and Administrative:** *Cory Steinke, WAC Chair*

49 Introductions were made. There were no agenda modifications. Some edits were reported on the
50 May 2016 WAC meeting minutes. Motion to approve meeting minutes was made by Woodward,
51 seconded by Taddicken, unanimously approved.

52

53 **WAP Projects and Other Brief Water Updates**

54

55 ***J-2 Regulating Reservoir:*** *Cory Steinke, CNPPID & Jerry Kenny, ED*

56 Kenny said the GC took action at the July 26-27 meeting to put the project on hold and directed
57 the ED Office to focus on other Water Action Plan projects that are common elements with or
58 without J-2. There are institutional and cost allocation issues that need to be sorted out for the J-2
59 Reservoir project. PRRIP, DNR, and CNPPID are amending document language to keep the J-2
60 project on hold and make sure it doesn't die completely. Program brought in legal counsel and
61 took the lead on drafting language; submitted to DNR for review, then will go to CNPPID.
62 Steinke said acquiring land is on hold and RJH is finishing up a few last reports (cultural
63 resources and geotechnical), which should be wrapped up in the next month or two.

64

65 ***CPNRD Water Leasing Permits:*** *Duane Woodward, CPNRD*

66 Woodward went over the surface water transferred acreage and natural flow returns to the river
67 for the Cozad, Thirty Mile and Orchard-Alfalfa canals. There is a storage water component;
68 however, it is no longer used on the land. The storage water can only be used for irrigation, not
69 instream uses. Most of the lands with transferred surface water switch to groundwater irrigation.
70 Still waiting for DNR approval of transfers. There was some discussion among WAC members
71 about the depletions, on-farm recharge and net consumptive use credit.

72

73 Excess flows were recharged in April/May this year. The net recharged is based on deliveries
74 into canals less the water returned through wasteways. The CPNRD is working on downloading
75 the measuring data and calculating recharge volumes.

76

77 ***NPPD Water Leasing Permits:*** *Jeff Shafer, NPPD*

78 The NPPD is working on temporary permits to recharge water this fall. Permanent recharge
79 permits were submitted to the NDNR but have not been approved yet; therefore, the NPPD
80 operates under temporary permits. The permanent surface water transfer permits will hopefully
81 be issued in the order applications were received (CNPPID, then CPNRD, then NPPD). Shafer
82 said the NPPD is working on an additional transfer permit application (irrigation to instream use)
83 for more acreage under the Dawson County and Gothenburg Canals.

84

85 ***CNPPID Water Leasing:*** *Jerry Kenny, ED*

86 The Program is looking to lease water from irrigators in the CNPPID again this fall, as this will
87 be a full allocation year (Lake McConaughy full, so no farmer-to-farmer water transactions will
88 be allowed). The GC will review a draft agreement in August, and the CNPPID board has
89 already approved the concept for a second year.

90



91 The CNPPID handles the transactions. The cost is the same as last year - \$220/acre with a cap of
92 2,000 acres. The Program will pay the administration fee to the CNPPID. Hopefully more
93 irrigators will be interested in participating this year, especially as it is the second year of
94 operations and commodity prices are lower. The credit is 9 inches of water per acre, added to the
95 EA in Lake McConaughy on October 1st. The 2015 pilot program had about 50 parcels signed
96 up totaling 1,037 acres, mostly pivot corners and odd-shaped parcels, the types of lands that were
97 anticipated.

98

99 ***Wet Meadows Update:*** *Scott Griebing, ED Office*

100 Griebing mentioned there are no new updates – data collection and analysis continues for wet
101 meadows sites. A 2015-2016 data analysis will be put together for the adaptive management
102 reporting session.

103

104 ***COHYST Update:*** *Scott Griebing, ED Office & Duane Woodward, CPNRD*

105 The modeling team is working on documentation and starting to set up the calibration process.
106 Work is moving on schedule, with a good working model, or at least calibrated model, by the
107 end of 2016 or early 2017. Woodward gave a brief overview of the calibration work on the
108 groundwater model.

109

110 ***Project Scoring Efforts:*** *Sira Sartori, ED Office*

111 Sartori said the CPNRD water lease scoring, which includes excess flow recharge accretions and
112 transferred surface water credit, is under way. Elwood Reservoir recharge operations will also be
113 scored soon. The Cook recapture well score (under the Phelps County Canal) will be brought to
114 the GC for approval at the next meeting.

115

116 ***Excess Flow Analysis Report:*** *Scott Griebing, ED Office*

117 There were no questions. Motion to recommend the report as final by Woodward, seconded by
118 Econopouly. All in favor; no opposed.

119

120 **Water Plan A and B:** *Jerry Kenny, ED*

121 A memorandum on Water Plan A and B (previously distributed to the signatories and presented
122 to the GC in July) was distributed to the WAC – the estimates in the memo and this presentation
123 are dynamic and subject to change. The Program signatories asked the ED Office to evaluate
124 alternative paths to achieve the water milestone, with and without the J-2 Reservoir. Water Plan
125 A includes the J-2 Reservoir as a large portion of the yield and also includes projects already
126 underway, such as leasing. In addition, project concepts such as broad-scale recharge and slurry
127 wall gravel pits would be necessary for Water Plan A to reach 50kaf of score.

128

129 The alternative without a large reservoir is referenced as Water Plan B and includes expanded
130 development of broad-scale recharge and slurry wall gravel pits. Kenny said the Program would
131 have to capitalize on the use of excess flows in other projects since the J-2 Reservoir would not
132 be included in Water Plan B. Without a large reservoir, reaching a Short Duration High Flow
133 (SDHF) will be very challenging.



134
135 Water Plan B also includes an “acquire and retire” component where the Program would buy
136 agricultural land and retire the water. For groundwater irrigated land, the Program would take
137 credit from the consumptive use that accretes to the river over time. For surface water, the
138 Program would work with the associated ditch company and the ditch company would handle the
139 transfer of water from irrigation to instream use. Transfers are temporary but up to 30 years and
140 can be renewed. The Program would have easements on the land for permanent dryland. The
141 Program would initially focus on marginal agricultural land. The intent is to disperse the acreage
142 throughout the basin between the Stateline to Elm Creek.

143
144 The GC approved their first land/water acquisition in July as a test case – a small parcel of about
145 43 acres in Morrill County yielding about 30 acre-feet under the Alliance Ditch. The volume of
146 water could be stored in the EA in Lake McConaughy; however, the volume from this one parcel
147 is very small and hard to track. It may make sense to acquire several properties to increase the
148 yield in the area or construct a small basin to capture the monthly credit and store it so it can be
149 routed and tracked to the EA. Other irrigators under the Alliance and Enterprise Ditches may be
150 interested.

151
152 Econopouly asked about how future excesses will impact broad-scale recharge and gravel pit
153 operations. Kenny said both projects would be able to capitalize on large excesses coming in a
154 short period of time. Canal capacities could be enlarged to bring in more water, in some cases.
155 Kenny described some potential slurry wall gravel pit reservoir sites and more details on how the
156 concept would work.

157
158 Altenhofen asked about the competition for water between the Program and the NDNR and
159 NRDs. He noted that the NDNR may need 25% of other projects to make up the J-2 Reservoir
160 yield if it is not constructed. He also emphasized the importance of storage and asked if the ED
161 Office has looked at any previously studied projects, such as storage in Sutherland Reservoir
162 East or Guernsey Reservoir. Shafer said the NPPD is working on a study of Sutherland
163 Reservoir. Kenny said the focus is on broad-scale recharge and slurry wall gravel pits at the
164 moment, but other storage sites are also being evaluated. The Program wants to do some pilot
165 projects to test potential project concepts on Program-owned lands. Econopouly mentioned the
166 USFWS is still interested in hitting SDHFs. There was some discussion as to whether a project
167 score should include additional benefit from SDHF use.

168
169 **Broad-Scale Recharge Update:** *Kevin Werbylo, ED Office*

170 Werbylo presented on the general concept of broad-scale recharge, the locations identified for
171 projects and the ED Office’s path forward. The ED Office is looking at Cottonwood Ranch as a
172 pilot project to implement in the near future. Bill Hahn, ED Office Special Advisor, is also
173 evaluating additional locations for potential operations, including lands the Program owns or
174 manages, as well as lands as far upstream as Gothenburg, for now. Werbylo discussed the
175 conceptual design of the Cottonwood Ranch concept including preliminary berms, inundated



176 areas and capacities. Preliminary infiltration rates based on the two test pits constructed by the
177 Program were discussed.

178
179 Cottonwood Ranch has been the focus of a pilot recharge project because the inundated area
180 would also serve as enhanced habitat for cranes in the spring and fall. It is also managed by the
181 Program and water could be delivered to the site through a pipeline from the Phelps Canal. The
182 recharge area is an appropriate distance from the river for recharge operations. There are still
183 questions the ED Office must address including more firm costs, scores, water delivery options,
184 water service agreement terms and permitting for the site. Griebing is currently working on a
185 groundwater model of the site. The ED Office intends to share the information with the TAC as
186 well.

187
188 **Update on Slurry Wall Gravel Pit Concept:** *Seth Turner, ED Office*

189 The ED Office is looking at potential sites on Program lands, at existing pits and other locations
190 under canals. Both Water Plan A and B include the concept of gravel pit slurry wall storage.
191 Again, the projected costs, scores and capacities in this presentation are dynamic and subject to
192 change as the ED Office evaluates projects further. The currently identified potential project
193 locations include Plum Creek, Elm Creek and Lindstrom properties. Turner mentioned there are
194 still many uncertainties with the concept of slurry wall storage pits, including the depth/extend of
195 an impeding layer and the ability to deliver water in and out of the pit.

196
197 Field reconnaissance was done by the ED Office in July – Turner described some potential issues
198 that would impact slurry walls at the site. An Aerial ElectroMagnetic (AEM) survey was also
199 completed in July. The AEM survey was completed over the J-2 Reservoir area and along the
200 river for gravel pit and broad-scale recharge sites. Interpreted results from the AEM survey are
201 expected in a few months and will be used in conjunction with existing bore holes and well log
202 data and new geophysical data collection (USGS Ohm-mapper survey, planned new bore holes at
203 Plum Creek and Elm Creek).

204
205 Turner went over alternatives to traditional gravel pit reservoirs including berming pits to
206 increase capacity and confined groundwater reservoirs (store water in sand/gravel pore space and
207 pump back water to the river to avoid excavation). The ED Office distributed a memorandum to
208 the WAC describing the concepts in greater detail.

209
210 **Acquire and Retire Agricultural Land:** *George Oamek, ED Office*

211 The concept of acquire and retire was further discussed by Oamek. The Program would purchase
212 irrigated cropland, convert the water to instream use and sell the land as dryland. Oamek gave
213 some back-of-the-envelope estimates for irrigation water values in the Central Platte Basin.
214 Costs were amortized over 50 years at 3%. Water volumes were estimated at 0.95 acre-feet/acre
215 to calculate a cost per acre-foot of water. Costs are in the ballpark of water leases but provide a
216 long-term supply of water.

217



218 Some of the pros of acquire and retire include: competitive water pricing, low commodity prices
219 currently, land market is active now, Program can have a diversified water portfolio, immediate
220 implementation of projects but also flexibility to wait for good deals, etc. The Program would
221 have long-term water on the books, instead of short-term leases.
222

223 Some cons include: upfront cash flow needed, potential 3rd party impacts from removing
224 agricultural land, potential to distort land market, possible reduction in tax base, etc. To
225 minimize these impacts, the Program intends to spread the purchased acreage over a large area
226 and focus on less productive land. The proportion of land that would be converted to dryland
227 would be minimal in comparison to the total irrigated acreage in the basin.
228

229 Altenhofen suggested the Program be selective for groundwater acquisition as the benefit is
230 based largely on the location. He supported the concept of having the transferred water in
231 perpetuity. Little went over the concerns from the TBNRD regarding acquire and retire, which
232 were summarized and distributed in a memo to the WAC. The WAC discussed some of the
233 comments. Kenny requested feedback from Colorado and Wyoming about acquiring agricultural
234 lands for water in those states. Sellers noted that Colorado has export laws that makes it difficult
235 to move water across the Stateline. Clerkin said Wyoming doesn't have the irrigated acreage for
236 large transfers as Nebraska and Colorado do, and noted that exporting water would need to go
237 through the legislature. Kenny also reminded the group about the higher cost of Colorado
238 agricultural land and water. It was also noted that Colorado taxes exported water, further
239 increasing the cost.
240

241 Kenny noted that all purchases for land/water acquisition would go through the GC, and that
242 currently the GC has not requested other committees review purchase options. Strauch brought
243 up that the Program and NRDs/NDNR should work closely together on these projects as
244 Program water benefits all groups. Groundwater retirements, for example, increase river flows
245 and thereby, reduce Nebraska's obligation to mitigate depletions to pre-1997 levels. Kenny noted
246 that surface water can be protected, so that type of project wouldn't necessarily reduce the
247 NDNR/NRDs' obligations; however, the Program and NDNR/NRDs should definitely team on
248 projects and cost share.
249

250 **Additional Business:** *Cory Steinke, WAC Chair*

251 The next WAC meeting is October 11, 2016.
252

253 **Action Items**

254 General WAC

- 256 • n/a

257 ED Office

- 258 • n/a

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