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Subject: San Bernardino NWR Periodic Hydrologic Monitoring Update 03/ 02 /2020
Date: Monday, March 2, 2020 12:02:11 PM
Attachments: [SBNWR Pond Well Update 24Feb-28Feb20 TH.docx](#)

During the week of February 28, 2020:

**Monitoring wells checked and data recorded, pressure logs pulled and sent to water resources, pond inlet flows recorded in survey123, pond levels recorded in survey123. Protocol still in development* New survey123 tested*

- 24 Feb - water turned on to mesquite pond at cottonwood well (initial flow approx. 15 gal/min)
 - 24 Feb - new survey123 first test conducted, edits needed
 - 24 Feb - discovered that pumped water flow is apparently back flowing back into the well via the artesian flow pipe at hackberry well.
 - 24 Feb - 2nd board pulled from north pond (maint), to create overflow into Black Draw
 - 25 Feb - hay hollow pump appears to need repairs - well company scheduled for 3/10
 - 25 Feb - 2nd board replaced at north pond, and apparent gopher hole found on SE side of north pond allowing draining of water... attempts to clog the hole and stop the leak made.
 - It's thought that the "drain looking" pipe noted previously may be the same as the gopher hole spot
 - 25 Feb - survey123 tested in office, ready for field test
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- Hay hollow water has been on since 01/23/20 pump on since 02/18/20
 - pond level ok with some outflow
 - Bunting water has been on since 01/17/20 pump on since 02/18/20
 - pond level ok with outflow
 - Twin water has been on since 01/17/20 pump on since 02/18/20
 - pond level good with outflow
 - Twin2 water has been on since 02/12/20
 - pond level good with outflow
 - Hackberry well water has been consistently on to ponds pump on since 02/18/20
 - pond levels ok **no outflow** (boards leaking so some "outflow" is occurring)

weekly biology report attached

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