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To: rday@tnc.org; [Heidi Blasius@blm.gov](mailto:Heidi_Blasius@blm.gov); [Chuck Minckley](#); [REDACTED]; [Tiffany Love-Chezem](#); [Laura Frear](#); [Lara Upton](#); [Brian Hickerson](#); [Sheridan Paulus](#); [Con](#)
Subject: Muleshoe Monitoring September 15-17, 2014
Date: Thursday, September 11, 2014 3:47:28 PM
Attachments: [Protocol For Muleshoe Stream Fish Monitoring.doc](#)
[FISH COLLECTIONS MULTIPLE SITES DATASHEET.pdf](#)
[HotSpringsMonitoringSites2014Map.JPG](#)
[Muleshoe2014MonitoringSites.gpx](#)
[RedfieldMonitoringSites2014Map.JPG](#)

Hey all,

Attached is the protocol and datasheet that we use for sampling Hot Springs Canyon and Redfield Canyon. Please review these plus the maps so that you will know what to do and where you are going when you are monitoring. Also attached is a gpx file containing the sample location points (top end of each transect).

On Monday we will sample Redfield Canyon, and will leave the headquarters by 6:30 am.

On Tuesday we will sample Hot springs Canyon, and the crews for reaches 2 and 3 will leave by 6:30am. The crew for reach 1 can leave at 7:00 am. Most everyone can leave for home after the surveys are done on Tuesday, except for the CAP crew.

On Wednesday, the CAP crew (myself and Tiffany, and maybe Laura) will recon Bass Canyon for a Gila topminnow stocking location, and then return to Phoenix.

As of now, here are the assignments (may change upon request):

Redfield Canyon

- Reach 1 (Swamp Springs Canyon to waterfall) upper crew: Tiffany Love-Chezem, Brian Hickerson, Lara Upton. Crew will sample the upper three sites (RC-Permanent 1, RC-Random 1-2, and RC-Permanent 2).
- Reach 2 (Start of perennial water to Swamp Spring confluence and up): Tony Robinson, Laura Frear, Ron Day, Sheridan Paulus. Crew will sample the two random sites in reach 2, and then the lower two reaches in reach 1 (RC-Permanent 3 and RC-Random 1-1).

Hot Springs Canyon.

- Reach 1 (Bass Canyon to Wildcat Canyon): Heidi Blasius, Chuck Minckley, Jeff Conn
- Reach 2 (Wildcat Canyon down past next access trail): Tony Robinson, Laura Frear, Sheridan Paulus.
- Reach 3 (lower access trail down past Narrows): Tiffany Love-Chezem, Brian Hickerson, Lara Upton, Ron Day

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'Nothing in biology makes sense except in the light of evolution.' Theodosius Dobzhansky

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