

## Victoria Boyne

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**Subject:** FW: Flow measurements at Marsh Station Road  
**Attachments:** Marsh Station Flow.xlsx

**From:** Brian Powell [<mailto:Brian.Powell@pima.gov>]  
**Sent:** Monday, December 01, 2014 8:58 AM  
**To:** 'Vogel, Mindy S -FS'; Chris Garrett; Julia Fonseca  
**Cc:** Melissa Polm  
**Subject:** RE: Flow measurements at Marsh Station Road

Here are the data that have been collected by PAG; please cite their reports as the source of the data. It is also a partnership with Pima County RFCD.

Not included is the measurement for 9/2014 and they will be doing a walkthrough in the next few weeks. You can contact Mead about this. In our last report, we highlighted the strong connection between flow volume, streamflow length, and shallow groundwater levels. Those data are also available.

Brian Powell  
Program Manager  
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**From:** Vogel, Mindy S -FS [<mailto:msvogel@fs.fed.us>]  
**Sent:** Wednesday, November 26, 2014 2:24 PM  
**To:** Brian Powell; 'Chris Garrett'; Julia Fonseca  
**Cc:** 'Melissa Polm'  
**Subject:** RE: Flow measurements at Marsh Station Road

THANKS!! ☺



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**From:** Brian Powell [<mailto:Brian.Powell@pima.gov>]  
**Sent:** Wednesday, November 26, 2014 2:22 PM  
**To:** Vogel, Mindy S -FS; 'Chris Garrett'; Julia Fonseca

Cc: 'Melissa Polm'

**Subject:** RE: Flow measurements at Marsh Station Road

I will pull those data together and get it to you by next week.

Brian Powell

Program Manager

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**From:** Vogel, Mindy S -FS [<mailto:msvogel@fs.fed.us>]

**Sent:** Wednesday, November 26, 2014 12:13 PM

**To:** Chris Garrett; Brian Powell; Julia Fonseca

**Cc:** Melissa Polm

**Subject:** RE: Flow measurements at Marsh Station Road

Thanks Chris for getting this request out to Pima County. Yes, the FS is requesting a copy of this information, as explained below, to help us in our determination of effects as we work on the Rosemont project.

Can you please let us know when we might expect to receive this data set or where we could locate it (if it's available to the public somewhere)?

Thanks & Happy Thanksgiving!



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**From:** Chris Garrett [<mailto:cgarrett@swca.com>]

**Sent:** Wednesday, November 26, 2014 11:49 AM

**To:** Brian Powell; [julia.fonseca@pima.gov](mailto:julia.fonseca@pima.gov)

**Cc:** Vogel, Mindy S -FS; Melissa Polm

**Subject:** Flow measurements at Marsh Station Road

Good morning Brian –

As part of the Cienega Creek summary report you produced in August 2013, and the additional Cienega creek analysis you prepared and presented in summer 2014, you make reference to systematic flow measurements that are made at Marsh Station Road.

While we have some flow measurements that were reportedly taken by ADEQ at this location and uploaded to the USEPA STORET database, it sounds like there is a much more consistent and extensive flow data set in existence. This data set would be highly useful to the Coronado for the ongoing evaluation of potential aquatic impacts on Lower Cienega Creek, currently being prepared as part of the upcoming reinitiation of consultation under Section 7.

I've looked through all the information we've received this year as part of our working group, and I don't believe we have the Marsh Station Road flow information. Is this a data set you would be willing to provide the Coronado?

Thanks—appreciate any help you can give. For efficiency, since I think Mindy is already out for the Thanksgiving break, I've cc:ed her here so she can affirm that the request is being made on behalf of the Coronado.

- Chris

**Chris Garrett, P.HGW.**  
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