From:	David Favero
To:	Lam, Shelly; "Fisher, Sarah"
Cc:	Heller, Donald; "Beodray, Frank"; "Strobridge, Daniel M."; "Landry, Paul G."
Subject:	RE: Groundwater Elevation and Pumping Data
Date:	Friday, April 18, 2014 9:43:39 AM
Attachments:	Arcadis GW Memo No Info_2014-04-18.xlsx

Per the request below please see the attached table.

We are evaluating the other items identified but note that when LNAPL is measured in a well a formula that incorporates the density of LNAPL is used to calculate the DTW, so it's not a simple subtraction.

Let us know if you have any additional questions.

Thank you,
David Favero

217.741.6235 | dmfavero@comcast.net

From: Lam, Shelly [mailto:lam.shelly@epa.gov]
Sent: Tuesday, April 15, 2014 9:19 AM
To: Fisher, Sarah; David Favero
Cc: Heller, Donald; Beodray, Frank; Strobridge, Daniel M.; Landry, Paul G.; Lam, Shelly
Subject: FW: Groundwater Elevation and Pumping Data

Please see Dan's request below. Thank you in advance for any help you can provide.

Shelly Lam, LPG
Federal On-Scene Coordinator
U.S. EPA
2525 N. Shadeland Avenue, Suite 100
Indianapolis, IN 46219
Office: 317-308-3073
Cell: 317-417-0980

Hi Mr. Favero,

I really appreciate your sending the spreadsheet with the water levels and pumping rates that Shelly requested on my behalf. I have a related follow-up request that will hopefully be fairly simple if you. Please let me know if this is not the case. We are trying to use the Allison Transmission water levels to demonstrate that there's a southwest flow direction in the southwest portion of the Michigan Plaza site. The abundance of data you provided will certainly allow us to make this case but I can currently only use a portion of your data because I'm missing some well construction details for a number of wells.

The attached spreadsheet contains two sheets:

a) "piezo" – my edits to the water levels tab you sent, and
b) "no info" – a list of the wells for which I have no coordinates or screened intervals to be able use the associated data.

First, I would really appreciate it if you could run a quick query against your database to populate the empty columns on the "no info" tab for me. If there were just a handful of locations, I would digitize the coordinates and make an assumption about screened intervals based on the abundance of wells in each sand unit. However, there are just too many wells to do this for and I would like to keep my analysis as accurate as possible. You'll notice I've included a "source" column. I originally identified wells with missing information based on the water levels file you sent. I had subsequently found additonal wells after processing VOC hits tables.

Second, I encountered a few issues with the gauging data. I have made a couple of assumptions about how they occurred to enable to me to use your data and would like to bring them to your attention in case your hydrogeologists had not already noticed and fixed the issues during their processing. The issues were as follows:

a) The reported GW elevations sometimes did not equal the TOC minus the DTW.
b) There were a few occasions where it appeared the LNAPL and water levels had been transposed
c) The LNAPL thicknesses often did not equal the difference between the two levels reported
d) There were several occasions where the TOC was blank despite having a TOC prior to and after the blank cell that were equal.
e) There were several rows where a GW elevation and/or NAPL thickness had been calculated despite the absence of an observation and/or TOC value.

I assume most, if not all, of these issues are cosmetic and stem from the idea that the person who is creating the tables for the reports is not the same person who is creating the potentiometric maps from the data. I can easily envision how someone who is simply trying to make a pretty table for a report might have inadvertently modified the table from its original form during the formatting process. I have flipped the DTW and LNAPL levels where applicable and have populated the TOCs and listed my rationale when doing so. I've also deleted the records where no water level was gauged. Lastly, I created alternate GW elevation and NAPL thickness columns as well as columns that report the difference between my versions and the originals. The latter can be sorted/filtered to more easily find what I believe may be errors resulting from the formatting process. I just wanted to let you know about them so you can ensure that your analysts are working with the best possible dataset.

Thanks,
Dan

Dan Strobridge
Hydogeologist/GIS Developer
Weston Solutions, Inc
1400 Weston Way
West Chester, PA 19380

Ph: 610-701-3442

From: Lam, Shelly [mailto:lam.shelly@epa.gov]
Sent: Tuesday, April 01, 2014 10:07 AM
To: Landry, Paul G.; Beodray, Frank; Strobridge, Daniel M.
Cc: Lam, Shelly
Subject: FW: Groundwater Elevation and Pumping Data

Shelly Lam, LPG
Federal On-Scene Coordinator
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From: David Favero [mailto:dmfavero@comcast.net]
Sent: Tuesday, April 01, 2014 10:06 AM
To: Lam, Shelly; Heller, Donald
Cc: 'Sarah Fisher, ARCADIS'
Subject: RE: Groundwater Elevation and Pumping Data

An Excel spreadsheet is attached for your use.

Thank you,
David Favero

217.741.6235 | dmfavero@comcast.net

From: Lam, Shelly [mailto:lam.shelly@epa.gov]
Sent: Tuesday, April 01, 2014 9:03 AM
To: David Favero; Heller, Donald
Cc: Sarah Fisher, ARCADIS; Marilyn Dedyne, GM; Francis Ramacciotti, ENVIRON; Lam, Shelly
Subject: RE: Groundwater Elevation and Pumping Data

Thank you so much.

Shelly Lam, LPG
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From: David Favero [mailto:dmfavero@comcast.net]
Sent: Tuesday, April 01, 2014 8:48 AM

To: Heller, Donald
Cc: Sarah Fisher, ARCADIS; Marilyn Dedyne, GM; Francis Ramacciotti, ENVIRON
Subject: Groundwater Elevation and Pumping Data

Don,
The attached information is provided for EPA's information. Please let us know if you have any questions.

Thank you,
David Favero

217.741.6235 | dmfavero@comcast.net

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