From:	Matthew Nelson
To:	Raymond Chavira/R9/USEPA/US@EPA
Cc:	Joseph P. Kwan (joe.kwan@ngc.com); john.dolegowski@ch2m.com; kerang.sun@ch2m.com; Niemeyer, Linda (CO) (Contr); Mike Purchase; Peter MacNicholl; Lewis, Richard (ESS) (Contr); Tom.Perina@CH2M.com
Subject:	RE: Former TRW Benchmark Site Past Data Summary Table
Date:	03/20/2012 03:41 PM
Attachments:	2003-1121-Benchmark-GW Report-May 2003.pdf

Hi Ray,

Orion is working on a response to your requests below, which will be sent out to you and the team by the end of the day on Friday 23 March 2012. In response to request (f) below, I have attached a copy of the Groundwater Monitoring Report for the May 2003 semiannual event. This report will be included on the CD sent to you on Friday and uploaded to the Orion FTP site along with a few additional documents that we have located since the last upload to the FTP site on 29 February 2012.

Matthew Nelson
Orion Environmental Inc.

From: Raymond Chavira [mailto:Chavira.Raymond@epamail.epa.gov]
Sent: Monday, March 19, 2012 2:58 PM
To: Matthew Nelson
Cc: Joseph P. Kwan (joe.kwan@ngc.com); john.dolegowski@ch2m.com; kerang.sun@ch2m.com; Niemeyer, Linda (CO) (Contr); Mike Purchase; Peter MacNicholl; Lewis, Richard (ESS) (Contr); Tom.Perina@CH2M.com
Subject: RE: Former TRW Benchmark Site Past Data Summary Table

Hi Matthew,

Please update the list to include:

(a) All historic correspondence with the RWQCB;
(b) Work plans for the 2002 CPT, 2004 DB soil , and tracer studies;
(c)1991 -1995 groundwater data for all the Z4 series wells; including Z4-6;
(d) Copy of all Z4-6 groundwater data, copy of the the well abandonment/decommission permit for Z4-6 well; survey log for the Z4-6 well;
(e) List of documents submitted to the RWQCB which include the Z4- groundwater monitoring data;
(f) Copy of the May 2003 Semiannual Groundwater Event (dated November 2003)

Please provide a revised index via CD by Friday March 23, 2012.

Ray

From: Matthew Nelson <mnelson@orionenv.com>

To: Raymond Chavira/R9/USEPA/US@EPA
Cc: "Joseph P. Kwan (joe.kwan@ngc.com)" <joe.kwan@ngc.com>, "john.dolegowski@ch2m.com" <john.dolegowski@ch2m.com>, "kerang.sun@ch2m.com" <kerang.sun@ch2m.com>, "Niemeyer, Linda (CO) (Contr)" <Linda.Niemeyer@ngc.com>, Peter MacNicholl <PMacnich@dtsc.ca.gov>, "Lewis, Richard (ESS) (Contr)" <Richard.Lewis@ngc.com>, "Tom.Perina@CH2M.com"

<Tom.Perina@CH2M.com>, Mike Purchase <mpurchase@orionenv.com>

Date: 03/16/2012 05:39 PM
Subject: RE: Former TRW Benchmark Site Past Data Summary Table

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Ray,

I just wanted to let you know that we reviewed the historical files that URS (formerly Woodward-Clyde) had for the Benchmark site. There was not much in their files that did not already have in our file. There were only a couple minor files that we did not have in our historical file. I will send you the files that I found along with the Past Data Summary table update next week on 21 March 2012. Have a great weekend.

Matthew Nelson
Orion Environmental Inc.

From: Matthew Nelson
Sent: Monday, March 12, 2012 11:07 PM
To: Raymond Chavira
Cc: Joseph P. Kwan (joe.kwan@ngc.com); john.dolegowski@ch2m.com; kerang.sun@ch2m.com; Niemeyer, Linda (CO) (Contr); Peter MacNicholl; Lewis, Richard (ESS) (Contr); Tom.Perina@CH2M.com; Mike Purchase
Subject: RE: Former TRW Benchmark Site Past Data Summary Table

Ray,

We are continuing to work through the historical lab reports to fill in the Past Data Summary table. As we complete the review of the lab data we will update the table and resubmit it to you. We will you get you an updated version of this table on 21 March 2012.

We are also planning to perform a review of the historical files at URS (formerly Woodward-Clyde) this week. Once we have completed the review of the files and determined if there are any historical files that we do not already have I will let you know. If there are files that we do not have I will forward them to the team. I will send you an update on the file review by Friday 3/16/12.

Matthew Nelson
Orion Environmental Inc.

From: Mike Purchase
Sent: Monday, March 05, 2012 8:45 PM
To: Raymond Chavira; Matthew Nelson
Cc: Joseph P. Kwan (joe.kwan@ngc.com); john.dolegowski@ch2m.com; kerang.sun@ch2m.com; Niemeyer, Linda (CO) (Contr); Peter MacNicholl; Lewis, Richard (ESS) (Contr); Tom.Perina@CH2M.com
Subject: RE: Former TRW Benchmark Site Past Data Summary Table

Ray,
Here are the responses to your questions:
1. *Does this spreadsheet include all historical data collected since 1955? Does this summary include all assessment or study efforts i.e. tracer studies, modeling simulations, etc. If not compete, what is still missing?*
The spreadsheet does include almost all of the data collected since investigation activities began in 1987. I did a quick review and noticed the tracer study was not included in the table. It will be added. Northrop Grumman informed Orion that CDM did begin to incorporate the Benchmark site into their regional model in the past year or more, which is not included in this spreadsheet. CDM will be providing an update on the model status to you directly. Based on our available information we think we have everything in this table, except for the tracer study you noted.

2. *What does "pending" mean in the planning documents column assuming this data summary table is complete?*

We are still working to review the historical file and, therefore, this table is not entirely complete. This wasn't clear in our previous submittal but the "pending" listed in the cells was for information that was unknown and pending until we could review the lab reports more thoroughly. I apologize for this not being more clear and it should probably be listed as unknown at this time. We are continuing to review the lab reports and complete this table and we will provide an update next week on our status.

3. *Why were the majority of data never validated? If validated to what extent. Please explain why validation of data collected in 10 years ago in some cases is still "pending". Please explain what is meant by data packages "pending"?*

As we previously mentioned, the listing of "pending" was misleading and is meant to state that review of the lab reports and final reports submitted are pending to determine if data validation was conducted and to what extent. There was some data validation conducted for historical groundwater monitoring events but it was discontinued in later years. Data validation was not part of the quality assurance and quality control protocol for the project previously but will be included in any new data collected (per our new QAPP to be submitted).

4. *Why where the Z4 Series wells which were installed in 1991 not sampled until 1996?*

The Z4 series wells were installed as insitu soil vapor extraction wells and operated as such starting in 1992. It wasn't until a later date that it was proposed to sample and attempt groundwater extraction at these wells. The groundwater extraction system was started in 1996 and baseline sampling was conducted in November 1995.

We will continue to complete the table to the extent possible based on the historical file and will provide an update on the status to you on Monday, 12 March 2012.

Thank you,
Mike

Mike Purchase, P.E.
Principal Engineer
Orion Environmental Inc.
3450 E. Spring St., Suite 212
Long Beach, CA 90806
510-525-2180 direct line
562-988-2755

From: Raymond Chavira [mailto:Chavira.Raymond@epamail.epa.gov]
Sent: Thursday, March 01, 2012 6:00 PM
To: Matthew Nelson
Cc: Joseph P. Kwan (joe.kwan@ngc.com); john.dolegowski@ch2m.com; kerang.sun@ch2m.com; Niemeyer, Linda (CO) (Contr); Mike Purchase; Peter MacNicholl; Lewis, Richard (ESS) (Contr); Tom.Perina@CH2M.com
Subject: RE: Former TRW Benchmark Site Past Data Summary Table

Matthew,

I have a couple of questions related to this submittal.

First, does this spreadsheet include all historical data collected since 1955? Does this summary include all assessment or study efforts i.e. tracer studies, modeling simulations, etc. If not compete, what is still missing?

Second, what does "pending" mean in the planning documents column assuming this data summary table is complete?

Third, why were the majority of data never validated? If validated to what extent. Please explain why validation of data collected in 10 years ago in some cases is still "pending". Please explain what is meant by data packages "pending"?

Finally, why where the Z4 Series wells which were installed in 1991 not sampled until 1996?

Please respond by COB Monday March 5, 2012.

Thank you

Ray

From: Matthew Nelson <mnelson@orionenv.com>

To: Raymond Chavira/R9/USEPA/US@EPA
Cc: "Joseph P. Kwan (joe.kwan@ngc.com)" <joe.kwan@ngc.com>, "Niemeyer, Linda (CO) (Contr)" <Linda.Niemeyer@ngc.com>, "Lewis, Richard (ESS) (Contr)" <Richard.Lewis@ngc.com>, Mike Purchase <mpurchase@orionenv.com>, "Tom.Perina@CH2M.com" <Tom.Perina@CH2M.com>, "kerang.sun@ch2m.com" <kerang.sun@ch2m.com>, "john.dolegowski@ch2m.com"

<john.dolegowski@ch2m.com>, Peter MacNicholl <PMacnich@dtsc.ca.gov>

Date: 02/23/2012 10:43 PM
Subject: RE: Former TRW Benchmark Site Past Data Summary Table

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Ray,

Attached is an update to the former TRW Benchmark site Past Data Summary Table. Any additions or changes made to the table have been highlighted. Please let us know if you have any comments or questions. Thank you.

Matthew Nelson
Orion Environmental Inc.

From: Matthew Nelson
Sent: Friday, February 17, 2012 7:44 PM
To: Chavira.Raymond@epamail.epa.gov
Cc: Joseph P. Kwan (joe.kwan@ngc.com); Niemeyer, Linda (CO) (Contr); Lewis, Richard (ESS) (Contr); Mike Purchase; 'Tom.Perina@CH2M.com'; 'kerang.sun@ch2m.com'; 'john.dolegowski@ch2m.com'
Subject: RE: Former TRW Benchmark Site Past Data Summary Table

Ray,

Attached is an update to the former TRW Benchmark site Past Data Summary Table. Any additions or

changes made to the table have been highlighted. We are still working through the last of the historical files and will send you another update next Thursday (2/23/2012). Please let us know if you have any comments or questions. Thank you.

Matthew Nelson
Orion Environmental Inc.

From: Matthew Nelson
Sent: Wednesday, February 15, 2012 9:22 PM
To: Chavira.Raymond@epamail.epa.gov
Cc: Joseph P. Kwan (joe.kwan@ngc.com); Niemeyer, Linda (CO) (Contr); Lewis, Richard (ESS) (Contr); Mike Purchase; 'Tom.Perina@CH2M.com'; 'kerang.sun@ch2m.com'; 'john.dolegowski@ch2m.com'
Subject: Former TRW Benchmark Site Past Data Summary Table

Ray,

Attached is the Past Data Summary Table that you requested in the DQO and QAPP Development Path Forward Process that you emailed on 7 February 2012. In creating this table, we started with the historical groundwater monitoring and soil vapor survey tables. The next step we took was to begin going through the historical reports for the project to verify the entries we made from those historical tables, and to add any additional data collection events, including the confirmation sampling conducted during the onsite remediation activities.

We are currently still working through the historical files, and the table that is attached includes what we have completed to date. As we finish the review of the historical files we will update this table and forward it to you. I will give you an update of our progress on Friday 17 February 2012. Please let us know if you have any comments or questions. Thank you.

Matthew Nelson, P.E.
Project Engineer
Orion Environmental Inc.

3450 E. Spring St., #212
Long Beach, CA 90806
562-988-2755
562-988-2759 (fax)
[attachment "2012-0223-Benchmark-Past Data Summary Table.xls" deleted by Raymond Chavira/R9/USEPA/US]