Jakub, Barbara, Env. Health

From: Jakub, Barbara, Env. Health
Sent: Tuesday, October 16, 2012 1:41 PM

To: 'Rebekah Westrup'; jennifer.c.sedlachek@exxonmobil.com

Subject: RE: RO 2974 "Work Plan for Groundwater Monitoring, Air Sparge and Soil Vapor Extraction

Well Installations"

Your request for an extension until December 7, 2012, is approved. Regards,

Barb Jakub

From: Rebekah Westrup [mailto:rebekah.westrup@cardno.com]

Sent: Tuesday, October 16, 2012 1:25 PM

To: Jakub, Barbara, Env. Health

Subject: RE: RO 2974 "Work Plan for Groundwater Monitoring, Air Sparge and Soil Vapor Extraction Well Installations"

We are currently scheduled to sample the site this Friday, October 19, 2012. We are requesting an extension to December 7th, 2012. This will give us approximately 45 days to complete the 4th Quarter M&S report and additional items after submission of the groundwater samples.

Rebekah A. Westrup

SR STAFF GEOLOGIST CARDNO ERI

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Address 601 North McDowell Blvd., Petaluma, CA 94954-2312 USA

Email rebekah.westrup@cardno.com Web www.cardno.com www.cardnoeri.com

From: Jakub, Barbara, Env. Health [mailto:barbara.jakub@acgov.org]

Sent: Tuesday, October 16, 2012 1:24 PM

To: Rebekah Westrup; jennifer.c.sedlachek@exxonmobil.com

Subject: RE: RO 2974 "Work Plan for Groundwater Monitoring, Air Sparge and Soil Vapor Extraction Well Installations"

How long of an extension are you requesting?

From: Rebekah Westrup [mailto:rebekah.westrup@cardno.com]

Sent: Tuesday, October 16, 2012 1:15 PM

To: Jakub, Barbara, Env. Health

Subject: RE: RO 2974 "Work Plan for Groundwater Monitoring, Air Sparge and Soil Vapor Extraction Well Installations"

Barb:

We have been reviewing M&S and well construction data, and though we feel that hydrocarbon concentrations in wells MW3, MW4 and MW5 suggest that further assessment is needed to the west of the site, we have determined that the varied screen intervals for the onsite wells, warrants further evaluation of groundwater flow. A review of the boring logs indicate that four of our wells may be screened in a deeper zone, possibly skewing the groundwater elevation data.

To address this, are going to gather data from additional onsite wells (SVE1 through SVE3) during the 4th Quarter M&S event. We will use this data to try and clarify the groundwater flow direction at the site. Once we have the adjusted our groundwater elevation maps by including data from the shallow screened SVE wells and excluding the "deeper" wells, we will be able to generate the cross-sections as requested and either justify the proposed well locations, or adjust them as needed.

We would like to ask for an extension for submission of the evaluation and cross-sections so that we may include them as part of the 4th Quarter Monitoring and Sampling Report. This will give us more data and current concentrations for the contaminant requested isoconcentration map.

Sincerely,

Rebekah A. Westrup

SR STAFF GEOLOGIST CARDNO ERI

Phone (+1) 707-766-2000 Fax (+1) 707-789-0414 Mobile (+1) 707-338-8555 Address 601 North McDowell Blvd., Petaluma, CA 94954-2312 USA Email rebekah.westrup@cardno.com Web www.cardno.com www.cardnoeri.com

From: Jakub, Barbara, Env. Health [mailto:barbara.jakub@acqov.org]

Sent: Friday, October 05, 2012 11:41 AM

To: Rebekah Westrup; jennifer.c.sedlachek@exxonmobil.com

Subject: RE: RO 2974 "Work Plan for Groundwater Monitoring, Air Sparge and Soil Vapor Extraction Well Installations"

Dear Ms. Sedlachek,

I have performed a review of the *Work Plan for Groundwater Monitoring, Air Sparge and Soil Vapor Extraction Well Installations* dated August 1, 2012 and *Groundwater Monitoring Report, Second Quarter 2012* dated May 25, 2012 prepared by Cardo ERI. Before this work plan can be approved, I need some clarifications and additional information. The rose diagram from the groundwater monitoring report indicates that that primary groundwater flow directions have been to the north, NNE, SSE, and NNW. However the proposed groundwater monitoring wells are located to the Southwest. Please provide your justification for these locations or relocate them. Include a contaminant isoconcentration contour map on this proposed location map for contaminants of concern.

Please provide at least two cross-sections, at least one perpendicular and one parallel to the groundwater flow direction, include the lithology and contaminant concentrations, groundwater high and low elevations, proposed SVE and air-sparge screen intervals, the tank pit and any utility conduits that are on-site. Also, if the site surface has a large vertical variation, please use the elevation on the vertical scale.

As I have requested for other sites, please enlarge the site area presented on the site maps (groundwater elevation maps, etc.) so information is easily readable. Please evaluate if the data that is used on the groundwater elevation map is all from the same screened interval. Prepare groundwater contour elevation maps using only wells from the same screened interval. Evaluate if the previous groundwater flow directions presented on the rose diagram are accurate in light of this apparent inclusion of anomalous data. Also include an arrow showing the groundwater flow direction on all future groundwater elevation maps.

Please submit the requested evaluation and cross-sections in a work plan addendum by November 5, 2012. Regards,

Barbara Jakub, P.G.
Hazardous Materials Specialist
Alameda County Environmental Health
1131 Harbor Bay Pky.
Alameda, CA 94502
Direct: 510-639-1287

Direct: 510-639-1287 Fax: 510-337-9335

PDF copies of case files can be downloaded at:

http://ehgis.acgov.org/dehpublic/dehpublic.jsp

From: Rebekah Westrup [mailto:rebekah.westrup@cardno.com]

Sent: Thursday, October 04, 2012 8:25 AM

To: Jakub, Barbara, Env. Health

Subject: RO 2974 "Work Plan for Groundwater Monitoring, Air Sparge and Soil Vapor Extraction Well Installations"

Barb:

I am just following up on the above referenced Work Plan that we submitted on August 1, 2012. We are eager to move forward with this work, and anticipate that placement of the offsite wells will require additional permitting. We want to try to start that process before the Holidays, but cannot do so until we have your approval for the proposed work. Have you had a chance to review this work plan? Please let me know if you have any questions or concerns. I hope things are going well with you.

Rebekah A. Westrup SR STAFF GEOLOGIST CARDNO ERI



Phone (+1) 707-766-2000 Fax (+1) 707-789-0414 Mobile (+1) 707-338-8555 Address 601 North McDowell Blvd., Petaluma, CA 94954-2312 USA Email rebekah.westrup@cardno.com Web www.cardno.com www.cardnoeri.com

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