To: Jonathan Koplos[Jonathan.Koplos@cadmusgroup.com]; JAMES D WALKER[jameswalker5@msn.com]
From: Rao, Kate
Sent: Thur 10/27/2016 3:58:39 PM
Subject: RE: Technical Direction Memo: Contract No. EP-C-15-022, WA 0-90; Task 1, Subtask 1.2 -- Excelsior Mining Company - Class III UIC Permit # R9UIC-AZ1-FY-16-1, Permit Technical Review Analysis

Hi Jim –

Just following up to see if you are free for a call with Excelsior on 11/8. See below email thread.

Thanks. Kate

****

Kate Rao
Drinking Water Protection Section (WTR 3-2)
USEPA Region 9
75 Hawthorne St., San Francisco, CA 94105
tel: (415) 972-3533 / fax: (415) 947-3549

From: Jonathan Koplos [mailto:Jonathan.Koplos@cadmusgroup.com]
Sent: Thursday, October 27, 2016 6:40 AM
To: Rao, Kate <Rao.kate@epa.gov>; JAMES D WALKER <j[redacted]
Subject: RE: Technical Direction Memo: Contract No. EP-C-15-022, WA 0-90; Task 1, Subtask 1.2 -- Excelsior Mining Company - Class III UIC Permit # R9UIC-AZ1-FY-16-1, Permit Technical Review Analysis

Will do.

Talk soon.

Jonathan

From: Rao, Kate [mailto:Rao.kate@epa.gov]
Sent: Wednesday, October 26, 2016 6:55 PM
To: Jonathan Koplos <Jonathan.Koplos@cadmusgroup.com>; JAMES D WALKER <Ex. 6 - Personal Privacy>
Subject: FW: Technical Direction Memo: Contract No. EP-C-15-022, WA 0-90; Task 1, Subtask 1.2 -- Excelsior Mining Company - Class III UIC Permit # R9UIC-AZ1-FY-16-1, Permit Technical Review Analysis

Hi Jonathan/Jim –

We are setting up a call with Excelsior to discuss the attached Notice of Deficiency letter we issued on 10/14/2016. The proposed times for the call are Tuesday, 11/8 from 9 to 11 am (PT) or 10 – noon (PT). We would like Jim to participate on the call and answer questions as needed. Can you please tell me if Jim is available during these times?

I will draft a new TDM tomorrow so we can track it but just wanted to quickly check if timing works.

Thanks. Kate

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Kate Rao
Drinking Water Protection Section (WTR 3-2)
USEPA Region 9
75 Hawthorne St., San Francisco, CA 94105
tel: (415) 972-3533 / fax: (415) 947-3549

From: Rao, Kate
Sent: Monday, July 11, 2016 8:39 AM
To: Jonathan Koplos <Jonathan.Koplos@cadmusgroup.com>
Cc: Rumrill, Nancy <Rumrill.Nancy@epa.gov>; Jim Walker <Ex. 6 - Personal Privacy>
Subject: RE: Technical Direction Memo: Contract No. EP-C-15-022, WA 0-90; Task 1, Subtask 1.2 -- Excelsior Mining Company - Class III UIC Permit # R9UIC-AZ1-FY-16-1, Permit

Technical Review Analysis

Hi Jonathan.

Looks like WA 1-90 is active now!

Nancy is still reviewing the comments that Jim submitted. I believe she has some clarifying questions to discuss with Jim and will reach out to him directly to discuss.

Regards - Kate

****
Kate Rao
Drinking Water Protection Section (WTR 3-2)
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75 Hawthorne St., San Francisco, CA 94105
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From: Jonathan Koplos [mailto:Jonathan.Koplos@cadmusgroup.com]
Sent: Wednesday, June 08, 2016 7:51 PM
To: Rao, Kate <Rao.kate@epa.gov>
Cc: Rumrill, Nancy <Rumrill.Nancy@epa.gov>; Dermer, Michele <Dermer.Michele@epa.gov>; Jim Walker <Ex. 6 - Personal Privacy
Subject: RE: Technical Direction Memo: Contract No. EP-C-15-022, WA 0-90; Task 1, Subtask 1.2 -- Excelsior Mining Company - Class III UIC Permit # R9UIC-AZ1-FY-16-1, Permit Technical Review Analysis

Hi Kate and Nancy,

Ex. 5 - Deliberative Process

Ex. 5 - Deliberative Process

Because of the all the details and multiple technical aspects covered in the attached comments, we anticipate one (or more) follow-up calls might be needed so we can answer any questions you have.

Please let us know if you have any questions.

Thank you,

Jonathan

Jonathan Koplos, Ph.D.

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Cell 617-775-5789

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From: Rao, Kate [mailto:Rao.kate@epa.gov]
Sent: Thursday, March 24, 2016 6:34 PM
To: Jonathan Koplos <Jonathan.Koplos@cadmusgroup.com>
Cc: Albright, David <Albright.David@epa.gov>; Rumrill, Nancy <Rumrill.Nancy@epa.gov>; Dermer, Michele <Dermer.Michele@epa.gov>; Parrotta, Nancy <Parrotta.Nancy@epa.gov>; Adams, Tammy <Adams.Tammy@epa.gov>
Subject: Technical Direction Memo: Contract No. EP-C-15-022, WA 0-90; Task 1, Subtask 1.2 -- Excelsior Mining Company - Class III UIC Permit # R9UIC-AZ1-FY-16-1, Permit Technical Review Analysis

Hi Jonathan – another work request under WA 0-90. Please let me know who the technical lead will be on this project. I have one hardcopy application with CDs that I will send to the tech lead and have another set of CDs (includes complete revised application) that I can send to you if needed. Nancy Rumrill is the tech lead for EPA.

Please let me know if you have any questions.

Thanks. Kate

Contract No. EP-C-15-022, Workplan Assignment No. 0-90

R9 Tech Support for Implementation of the UIC Program – Excelsior Mining Company - Class III UIC Permit #R9UIC-AZ1-FY-16-1

[Task 1; Subtask 1.2 - Permit Technical Review Analysis]

Technical Direction

Background: Excelsior Mining Company (Excelsior) has submitted a UIC area permit application to operate a Class III ISR copper mining facility in Chochise County, AZ. EPA determined that the application, which includes an aquifer exemption, is administratively complete (see attached letter). The applicant also submitted an Aquifer Protection Permit to the Arizona Department of Environmental Quality (ADEQ) and this is also available on CD.

Action: Under Task 1, Subtask 1.2 – Technical Review Analysis, review and provide an evaluation of Excelsior's permit application, including the aquifer exemption proposal, dated *February 2016/revised March 2016*. The following evaluation must be conducted:

- Analyze well log data and testing results submitted by the prospective owner or operator.

- Evaluate local and regional geology, including injection zone and confining zone characteristics.

- Assess area of review (AoR) determinations or zone of endangering influence calculations, including information related to aquifer exemptions (if applicable).

- Provide recommendations for any corrective action required at existing wells within the AoR.

- Identify and recommending technical terms and conditions to be imposed in the draft permit (related to well operation, monitoring, testing, reporting, and other activities required by applicable UIC Program regulations).

- Evaluate proposed plugging and abandonment plans.

- Assess the acceptability of proposed financial assurance procedures/mechanisms.

- Review and evaluation other applicable attachment(s) in the permit application.

Deliverable: Provide a technical analysis summarizing the results of the technical review of the permit application. The analysis should include an itemized list of additional information necessary to clarify, modify, or supplement the permit application materials. Deliverable should be emailed in WORD to Kate Rao and Nancy Rumrill. If necessary, based on further technical direction from Kate Rao, Cadmus may be asked to evaluate subsequent submittals made to address the identified technical deficiencies, until the permit application is determined to be technically sufficient.

Material:

- Hardcopy permit application (dated February 2016/revised March 2016) which includes CDs of a) February 2016 application, b) February 2016/revised March 2016 permit application, and c) ADEQ APP Application January 2016.

- March 24, 2016 Admin Review letter from EPA to Excelsior (attached).

Ex. 5 - Deliberative Process

Schedule: Due 8 weeks from the date of this TDM (May 19, 2016).

Kick-off Call: Nancy Rumrill with schedule a call with the Cadmus tech lead once the material is received to discuss the TDM. Ex. 4 - CBI