Detterman, Mark, Env. Health

From: Detterman, Mark, Env. Health
Sent: Tuesday, December 23, 2014 5:13 PM
To: 'Russi, Tonya'; 'MacLeod, Carryl G'; 'ACoulter@chevron.com'
Cc: Roe, Dilan, Env. Health; 'D.M. Livermore'
Subject: Request for Meeting - Chevron site 97127 (I 580 and Grant Line Rd, Tracy, CA): RO0000185)
Attachments: 10 S Grantline Remediation.docx

Hi all,
I wanted to followup on several action items from recent meetings. Per the November 20, 2014 meeting, it is our understanding that the destruction of the water production well by Chevron will proceed before February 15, 2015. This has been discussed as an important milestone in a more recent meeting on December 19, 2014 with Mr. Onsori and his site redevelopment team. Evaluation of the site for onsite waste water treatment and site redevelopment is dependent on this.

It is also the understanding of ACEH that Chevron and Mr. Onsori's team have been in communication and that a site development plan from MI Architects has been provided electronically to Chevron and / or it's consultant, Arcadis. As a result of the recent meeting with Mr. Onsori's and his consultants, it is the understanding of ACEH that a merged plot of the redevelopment plan and existing site wells and features will be provided to all by Arcadis by January 16, 2015. Again redevelopment of the site is dependent on this timeline.

Per these recent meetings and other communications it is the understanding of ACEH that a likely corrective action to be proposed for the site may be DPE. To facilitate redevelopment, Mr. Onsori's team has requested a preliminary design plot of likely DPE well and compound locations at the site (with assumptions), on the site redevelopment plan, in order to determine options for the sanitary leach field locations and constraints. Although DPE pilot tests have not been conducted, a preliminary plot of probable well locations and assumptions is requested to be provide to all, by January 16, 2015. Limited recent well radius of influence data is available in previous work conducted by CRA at the site.

These action items are intended for use at a meeting to facilitate discussion between all interested parties in late January or early February 2015. Towards that end, please provide ACEH with several potential meeting times.

Finally, I have attached a copy of a remediation method that has been put forward for the subject site by Mr. Onsori's design team, Dietz Engineering and Construction. Because Bernie Dietz of Dietz Engineering and Construction is known by ACEH to have extensive large scale remediation experience, ACEH requests that the method be reviewed and addressed in the FS/CAP. It has been suggested to be capable of relatively quickly removing FP and high dissolved-phased concentrations, and this is in Mr. Onsori's site redevelopment interest.

Please let me know a number of dates and times that will work for you for a meeting of all parties.
Thanks,

Mark Detterman
Senior Hazardous Materials Specialist, PG, CEG
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502
Direct: 510.567.6876
Fax: 510.337.9335
Email: mark.detterman@acgov.org

PDF copies of case files can be downloaded at:

http://www.acgov.org/aceh/lop/ust.htm

From: Detterman, Mark, Env. Health
Sent: Friday, December 19, 2014 11:02 AM
To: 'Russi, Tonya'
Cc: MacLeod, Carryl G; ACoulter@chevron.com
Subject: RE: Chevron site 97127 (I 580 and Grant Line Rd, Tracy, CA): RO0000185: Reporting extension request

Hi Tonya,
Thanks for the reminder on this extension request. Per our discussions at the meeting, please use this email to document ACEH concurrence with the extension of the work plan to January 9t, 2015, and with the extension of the FS/CAP submittal to March 27, 2015.

Mark Detterman
Senior Hazardous Materials Specialist, PG, CEG
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502
Direct: 510.567.6876
Fax: 510.337.9335
Email: mark.detterman@acgov.org

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From: Russi, Tonya [mailto:Tonya.Russi@arcadis-us.com]
Sent: Tuesday, November 25, 2014 10:58 AM
To: Detterman, Mark, Env. Health
Cc: MacLeod, Carryl G; ACoulter@chevron.com
Subject: Chevron site 97127 (I 580 and Grant Line Rd, Tracy, CA): RO0000185: Reporting extension request

Hi Mark,

Thank you for meeting with the project team and property owner on November 20, 2014 to discuss Chevron site 97127. As requested during the meeting, ARCADIS provided Mr. Ibrahim a CAD site plan on November 21, 2014.

ARCADIS will move forward with scheduling the destruction of WSW-1 (onsite supply well). A schedule will be provided once a driller has been procured.

ARCADIS would like to request a reporting extension for the FS/CAP. As discussed during the meeting, the FS/CAP will include the results of a pump test. A work plan will be prepared outlining the plans to conduct a pump test on MW-1 to determine approximate flow and discharge rates. The pump test is needed to determine feasibility of DPE as a remedial technology. Per our meeting discussion the property owner will provide information regarding the septic field by the end of December in order to incorporate into the FS/CAP.

ARCADIS requests a reporting extension of December 30, 2014 for submittal of the Pump Test Work Plan. Additionally, ARCADIS requests a reporting extension of March 31, 2015 for submittal of the FS/CAP.

Thank you,

Tonya Russi | Senior Scientist| tonya.russi@arcadis-us.com

ARCADIS U.S., Inc. | 101 Creekside Ridge Court, Suite 200 | Roseville, CA, 95678
T: 916 865 3168
Connect with us! www.arcadis-us.com | LinkedIn | Twitter | Facebook

ARCADIS, Imagine the result

10 S. Grantline
Alameda County

Issue

Two feet floating product ~ 25 – 30 feet BGS in defined area of site.

Options for Remediation

1. **Conventional excavation and pump (highest cost option).**

    a. Excavate ~ a 10 – 15 feet square hole with excavator (minimum 200 class with 4' bucket) (not a long stick – too slow). Bench at 15 feet. Stockpile soil for reuse. Segregate clean and contaminated soil.

    b. Lower diaphragm pump (air operated to prevent fire) on platform to intermittently pump floating product to 10,000 gallons Baker type tank creating cone of depression. This may require several weeks depending on soil permeability.

    c. If soil permeability is low then rock the excavation 4 – 6 foot deep with drain (2 – 4") rock. Install a 6" SS well screen in floating product zone. Extend 6" pipe to surface.

    d. Backfill and compact to surface. Cover rock with geotextile fabric before backfill.

    e. Periodically pump floating product with a ½ HP submersible pump into 10,000 gallon tank. Use a rubber hose attached to pump.

    f. Recycle hydrocarbon and contaminated water and dispose of contaminated soil at local landfill.

    g. When complete fill 6" casing with lean grout.

2. **Drilled excavation and pump (lowest cost option).**

    a. Drill 1 to 3 – 6 foot diameter holes using a truck mounted bucket auger (like used for freeway bridge construction) to about 6 feet below level of floating product. Separate contaminated and clean soil.

    b. Lower diaphragm pump on platform to intermittently pump floating product to 10,000 gallon Baker type tank creating cone of depression. This may require several weeks depending on soil permeability.

c. If permeability is low then rock the excavation 4 – 6 feet deep with drain (2 – 4") rock. Install a 6" SS well screen in floating product zone. Extend 6" pipe to surface.

d. Place a plywood or plastic cover over drain rock. Use a 1 -2 sack mix to backfill to surface (no compaction needed).

e. Periodically pump floating product with a ½ HP submersible pump into 10,000 gallon tank. Use a rubber hose attached to pump.

f. Recycle hydrocarbon and contaminated water and dispose of contaminated soil at local landfill.

g. When complete fill 6" casing with lean grout.

- Contact me for additional details.
- Dietz Engineering and Construction, Inc. is licensed, equipped and has the past experience to remediate site in cost efficient manner if desired.