Message

From: D'Almeida, Carolyn [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=9EC4401AFA1846DD93D52A0DDA973581-CDALMEID]
Sent: 7/22/2019 5:37:05 PM
To: Smallbeck, Donald R. [donald.smallbeck@woodplc.com]; Davis, Eva [Davis.Eva@epa.gov]; 'JERRARD, CATHERINE V CIV USAF HAF AFCEC/CIBW' [catherine.jerrard@us.af.mil]; 'Wayne Miller' [Miller.Wayne@azdeq.gov]; Pearson, Stuart C. [stuart.pearson@woodplc.com]
CC: d p [DPope@css-dynamac.com]; GANGNUSS, GREGORY G GS-14 USAF HAF AFCEC/CIBP [gregory.gangnuss@us.af.mil]; Nicole Goers [Nicole.Goers@TechLawInc.com]; 'Brasaemle, Karla' [KBrasaemle@TechLawInc.com]; 'Rohrbaugh, Amanda' [ARohrbaugh@TechLawInc.com]; 'Bo Stewart' [bo@praxis-enviro.com]; William Hughes [William.Hughes@cn-bus.com]; 'steve@uxopro.com' [steve@uxopro.com]; 'Jennings, Eleanor' [Eleanor.Jennings@parsons.com]; 'Panzino.Paula@azdeq.gov' [Panzino.Paula@azdeq.gov]
Subject: RE: ST012 Site Activities

I'm back from vacation and reading this thread.. Are you extracting to remedy the prior loss of containment?

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US EPA Region 9 Laboratory
1337 South 46th Street, Building 201
Richmond, CA 94804
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"We can evade reality, but we cannot evade the consequences of evading reality." - Ayn Rand

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From: Smallbeck, Donald R. [mailto:donald.smallbeck@woodplc.com]
Sent: Tuesday, July 16, 2019 11:18 AM
To: Davis, Eva <Davis.Eva@epa.gov>; 'JERRARD, CATHERINE V CIV USAF HAF AFCEC/CIBW' <catherine.jerrard@us.af.mil>; 'Wayne Miller' <Miller.Wayne@azdeq.gov>; D'Almeida, Carolyn <dAlmeida.Carolyn@epa.gov>; Pearson, Stuart C. <stuart.pearson@woodplc.com>
Cc: d p <DPope@css-dynamac.com>; GANGNUSS, GREGORY G GS-14 USAF HAF AFCEC/CIBP <gregory.gangnuss@us.af.mil>; Nicole Goers <Nicole.Goers@TechLawInc.com>; 'Brasaemle, Karla' <KBrasaemle@TechLawInc.com>; 'Rohrbaugh, Amanda' <ARohrbaugh@TechLawInc.com>; 'Bo Stewart' <bo@praxis-enviro.com>; William Hughes <William.Hughes@cn-bus.com>; 'steve@uxopro.com' <steve@uxopro.com>; 'Jennings, Eleanor' <Eleanor.Jennings@parsons.com>; 'Panzino.Paula@azdeq.gov' <Panzino.Paula@azdeq.gov>
Subject: RE: ST012 Site Activities

Balancing the pumping rate versus aquifer recharge to maximize pumping output, i.e minimize surging.

From: Davis, Eva <Davis.Eva@epa.gov>
Sent: Tuesday, July 16, 2019 10:55 AM
To: Smallbeck, Donald R. <donald.smallbeck@woodplc.com>; 'JERRARD, CATHERINE V CIV USAF HAF AFCEC/CIBW' <catherine.jerrard@us.af.mil>; 'Wayne Miller' <Miller.Wayne@azdeq.gov>; D'Almeida, Carolyn <dAlmeida.Carolyn@epa.gov>; Pearson, Stuart C. <stuart.pearson@woodplc.com>
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Subject: RE: ST012 Site Activities

How are you optimizing the extraction rate – can you expand on that?

From: Smallbeck, Donald R. <donald.smallbeck@woodplc.com>
Sent: Tuesday, July 16, 2019 12:09 PM
To: Davis, Eva <Davis.Eva@epa.gov>; 'JERRARD, CATHERINE V CIV USAF HAF AFCEC/CIBW' <catherine.jerrard@us.af.mil>; 'Wayne Miller' <Miller.Wayne@azdeq.gov>; D'Almeida, Carolyn <dAlmeida.Carolyn@epa.gov>; Pearson, Stuart C. <stuart.pearson@woodplc.com>
Cc: d p <DPope@css-dynamac.com>; GANGNUSS, GREGORY G GS-14 USAF HAF AFCEC/CIBP <gregory.gangnuss@us.af.mil>; Nicole Goers <Nicole.Goers@TechLawInc.com>; 'Brasaemle, Karla' <KBrasaemle@TechLawInc.com>; 'Rohrbaugh, Amanda' <ARohrbaugh@TechLawInc.com>; 'Bo Stewart' <bo@praxis-enviro.com>; William Hughes <William.Hughes@cn-bus.com>; 'steve@uxopro.com' <steve@uxopro.com>; 'Jennings, Eleanor' <Eleanor.Jennings@parsons.com>; 'Panzino.Paula@azdeq.gov' <Panzino.Paula@azdeq.gov>
Subject: RE: ST012 Site Activities

Eva

The initial and current pumping rate is approximately 6 gpm. We are continuing to optimize the extraction rate for CZ23.

From: Davis, Eva <Davis.Eva@epa.gov>
Sent: Tuesday, July 16, 2019 8:46 AM
To: Smallbeck, Donald R. <donald.smallbeck@woodplc.com>; 'JERRARD, CATHERINE V CIV USAF HAF AFCEC/CIBW' <catherine.jerrard@us.af.mil>; 'Wayne Miller' <Miller.Wayne@azdeq.gov>; D'Almeida, Carolyn <dAlmeida.Carolyn@epa.gov>; Pearson, Stuart C. <stuart.pearson@woodplc.com>
Cc: d p <DPope@css-dynamac.com>; GANGNUSS, GREGORY G GS-14 USAF HAF AFCEC/CIBP <gregory.gangnuss@us.af.mil>; Nicole Goers <Nicole.Goers@TechLawInc.com>; 'Brasaemle, Karla' <KBrasaemle@TechLawInc.com>; 'Rohrbaugh, Amanda' <ARohrbaugh@TechLawInc.com>; 'Bo Stewart' <bo@praxis-enviro.com>; William Hughes <William.Hughes@cn-bus.com>; 'steve@uxopro.com' <steve@uxopro.com>; 'Jennings, Eleanor' <Eleanor.Jennings@parsons.com>; 'Panzino.Paula@azdeq.gov' <Panzino.Paula@azdeq.gov>
Subject: RE: ST012 Site Activities

Hi Don – what's the pumping rate at CZ23? Glad to see it is up and running - Eva

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From: Smallbeck, Donald R. <donald.smallbeck@woodplc.com>
Sent: Tuesday, July 16, 2019 10:25 AM
To: 'JERRARD, CATHERINE V CIV USAF HAF AFCEC/CIBW' <catherine.jerrard@us.af.mil>; 'Wayne Miller' <Miller.Wayne@azdeq.gov>; D'Almeida, Carolyn <dAlmeida.Carolyn@epa.gov>; Pearson, Stuart C. <stuart.pearson@woodplc.com>
Cc: d p <DPope@css-dynamac.com>; Davis, Eva <Davis.Eva@epa.gov>; GANGNUSS, GREGORY G GS-14 USAF HAF AFCEC/CIBP <gregory.gangnuss@us.af.mil>; Nicole Goers <Nicole.Goers@TechLawInc.com>; 'Brasaemle, Karla' <KBrasaemle@TechLawInc.com>; 'Rohrbaugh, Amanda' <ARohrbaugh@TechLawInc.com>; 'Bo Stewart' <bo@praxis-enviro.com>; William Hughes <William.Hughes@cn-bus.com>; 'steve@uxopro.com' <steve@uxopro.com>; 'Jennings, Eleanor' <Eleanor.Jennings@parsons.com>; 'Panzino.Paula@azdeq.gov' <Panzino.Paula@azdeq.gov>
Subject: ST012 Site Activities

Activities from 6/3/2019 through 7/12/2019

- SVE Operation
- LNAPL checks
- Completed repairs on non-operational pumps
- Finished installation of CZ23 pump. Pumping at CZ23 started on 7/11/19. Sampled 1 day after start up.
- Implemented plumbing repairs on activated carbon
- Installed and started up a new influent flow meter

- Continued extraction and treatment ~50 gpm, ~20 million total gallons treated since startup of EBR extraction.
- Operating Extraction Wells: CZ07, CZ21, UWBZ21, UWBZ26, UWBZ30, LSZ09, LSZ11, LSZ12, LSZ23, LSZ37, LSZ38
- Extraction Wells Down: none
- Discontinued Extraction: UWBZ27, LSZ39 (baseline, non-pumping samples collected ~2 weeks after shutdown)
- Continued quarterly GW sampling
- Injections:
    - UWBZ34: 4.3 tons 6/5, 3.9 tons 6/10, 1.3 tons 6/14, 1.5 tons 6/17, 2.0 tons 6/18, 2.9 tons 6/19, 2.7 tons 6/20
    - UWBZ36: 2.6 tons 6/5, 3.2 tons 6/6, 3.0 tons 6/10, 1.5 tons 6/14, 1.5 tons 6/17, 0.7 tons 6/18,
    - UWBZ35: 1.2 tons 6/20, 4.0 tons 6/21, 1.9 tons 6/24, 3.3 tons 6/25, 1.7 tons 6/26, 1.5 tons 6/27,0.9 tons 6/28, 1.8 tons 7/1, 2.0 tons 7/2
    - W11: 1.7 tons 6/25, 1.6 tons 6/26, 14.2 tons 6/27, 0.8 tons 6/28
    - LSZ47: 0.2 tons 7/3, 0.3 tons 7/8, 5.3 tons 7/9, 0.2 tons 7/10, 2.3 tons 7/11
    - LSZ48: 0.8 tons 7/3, 1.5 tons 7/8, 1.0 tons 7/9, 1.0 tons 7/10, 3.6 tons 7/1

This week (7/15-7/19)

- SVE Operation
- Continue extraction
- Finish quarterly GW sampling
- Continue injecting sulfate.

Next Week (7/22-7/26)

- SVE Operation
- LNAPL checks
- Continue extraction
- Continue Injecting sulfate

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