

## **Madakor, Nnamdi (ECY)**

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**From:** Madakor, Nnamdi (ECY)  
**Sent:** Tuesday, December 08, 2015 10:26 AM  
**To:** 'Annica Brown -- Vertex'  
**Cc:** Pederson, Carrie (PLIA); Lybeer, Carol; Rory Galloway  
**Subject:** RE: Ecology Conference Call, Horse Heaven Hills, 12-08-2015 (Colony Claim No. 228845) VCP No. CE0411

**Importance:** High

Thank you so much for your summary and good luck with your field work

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**From:** Annica Brown -- Vertex [mailto:abrown@vertexeng.com]  
**Sent:** Tuesday, December 08, 2015 10:20 AM  
**To:** Madakor, Nnamdi (ECY) <NMAD461@ECY.WA.GOV>  
**Cc:** Pederson, Carrie (PLIA) <Carrie.Pederson@plia.wa.gov>; Lybeer, Carol <clybeer@argoprou.com>; Rory Galloway <RoryG@g-logics.com>  
**Subject:** Ecology Conference Call, Horse Heaven Hills, 12-08-2015 (Colony Claim No. 228845) VCP No. CE0411

Hi Nnamdi,

Rory Galloway (G-Logics) prepared the summary email below documenting our conversation this morning and his plans moving forward at the Horse Heaven Hills claim site (Colony Claim No. 228845)(VCP No. CE0411). Thank you for taking the time to talk and answer our questions in the opinion letter you prepared (attached) and clarifying your statements this morning.

Thank you,

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**Annica Brown, L.G.**  
Senior Project Manager

### **VERTEX**

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**From:** Rory Galloway  
**Sent:** Tuesday, December 8, 2015 9:01 AM  
**To:** Annica Brown -- Vertex (abrown@vertexeng.com)

Cc: Peter Hapke ([peter@hapkelaw.com](mailto:peter@hapkelaw.com)); [westviewproperties@comcast.net](mailto:westviewproperties@comcast.net); Karis Vandehey  
Subject: Ecology Conference Call, Horse Heaven Hills, 12-08-2015

Annica,

Thanks for setting up the conference call this morning with Nnamdi.

Summarizing our conversation, he is suggesting that wellpoints be installed in downgradient locations to assess the potential extent of groundwater contaminants and to establish points of compliance. We discussed how we're getting close to the southern extent of the subject property and Nnamdi suggested that a contaminant fate and transport model be used to justify the wellpoint locations. He needs this written documentation to support future decisions.

We also discussed how we would need to review drilling methods (the site soils are not too dense/gravelly for this drilling method). He stated that we could just install wells and skip the wellpoints, our call as he is flexible, but again the locations would need to be justified by the F&T model.

Based on the results of that groundwater sampling, we may be able to work toward closing the site. However, he stated that if contaminants were found above Cleanup Levels, then additional characterization and/or treatment would be required.

Nnamdi also was not aware if the EIM Data had been entered.

He was OK with another round of quarterly sampling, as we work through these other issues.

We did not discuss well repairs or EDW disposal.

Based on this call, I will be redrafting our workscope and budgets. In addition to quarterly sampling of the 7 existing wells, our workscope now will include drilling-methods review, F&T Modeling, wellhead repairs, EIM entry, and IDW disposal. Drilling at the new locations will be addressed in a future work-authorization request.

Please let me know if I did not capture something that we discussed.

Thanks again, I thought this was a productive meeting.

Regards,

**Rory Galloway**, LG, LHG, President | Principal  
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