From: Gary Babb

To: <u>Aufderhaar, Eric B; Craig Coslett; Drummond, Jaclynne</u>

Cc: <u>Caulk, Kim</u>

**Subject:** [External] Re: HWS comments on Q4 2023 RA Progress Report and Annual Summary

**Date:** Friday, March 15, 2024 9:37:45 AM

Attachments: Email Sig Test 2.png

**CAUTION:** External email. Do not click links or open attachments unless verified. Report suspicious emails with the Report Message button located on your Outlook menu bar on the Home tab.

#### Eric,

Based on our discussions on March 11, 2024, the following response to comments regarding the 2023 Q4 Progress Report and Annual Summary is provided:

# Comment:

Systems Operations – Performance

The mass removal of 1,4-dioxane was lower during Q3 compared to the earlier quarters. The VOC removal during Q3 was much lower than removal during the other quarters. Please explain why the mass removal was lower during Q3.

### Response:

As we discussed during our call Monday, the influent concentrations to the treatment system fluctuate based on a number of factors. The pumps installed in the extraction wells, leachate tanks, and sumps are float-activated to maintain a certain set-point elevation. Depending on the recharge rate to these extraction points, the contribution from each source is variable. Also, water extracted from primarily landfill sources is typically much lower in contaminant concentrations than from Seaboard sources. Another possible factor is the dry weather last summer and fall may have increased the contribution of recharge water to the extraction system from Randleman Lake.

## Comment:

System Operations – Monitoring

This is the first quarterly monitoring report since DWM approval of the revised quarterly monitoring program recommended in the October 20, 2023 RA Progress Report. The third bullet on Page 12 of the October 10, 2023 report indicated that groundwater elevations from the Pond 3 and SIS Basin Areas would be collected during the quarterly events to verify continuity of the capture zones. This February 21, 2024 RA Progress Report does not include the potentiometric measurements nor potentiometric maps that show the extent of the capture zones like the prior reports. In addition, the historical concentration tables were not included which required the reviewer to search out the information in the October 2023 report to review concentrations over the past sampling events. Please include the potentiometric maps and updated concentration tables for the sampled wells in future quarterly reports.

#### Response:

In future quarterly reports, we will include a composite potentiometric map for the Pond 3 and SIS Basin areas. Also, historical concentrations for the five surface water and two monitoring well locations will be included beginning with the start of the expanded extraction system (3/22/2022).

If there are any questions or comments regarding this information please contact us.

Have a good weekend, Gary

On 3/4/2024 3:29 PM, Aufderhaar, Eric B wrote:

Gary,

We have reviewed the Revised Remedial Action (RA) Progress Report Q4 and Annual Summary for the Former Seaboard Chemical and Riverdale Landfill site, dated February 21, 2024. The performance and shutdown information tables provide useful information about the remediation systems. We have the following questions and comments.

# <u>Systems Operations – Performance</u>

The mass removal of 1,4-dioxane was lower during Q3 compared to the earlier quarters. The VOC removal during Q3 was much lower than removal during the other quarters. Please explain why the mass removal was lower during Q3.

# <u>System Operations – Monitoring</u>

This is the first quarterly monitoring report since DWM approval of the revised quarterly monitoring program recommended in the October 20, 2023 RA Progress Report. The third bullet on Page 12 of the October 10, 2023 report indicated that groundwater elevations from the Pond 3 and SIS Basin Areas would be collected during the quarterly events to verify continuity of the capture zones. This February 21, 2024 RA Progress Report does not include the potentiometric measurements nor potentiometric maps that show the extent of the capture zones like the prior reports. In addition, the historical concentration tables were not included which required the reviewer to search out the information in the October 2023 report to review concentrations over the past sampling events. Please include the potentiometric maps and updated concentration tables

for the sampled wells in future quarterly reports.

Please contact me if you have any questions,

Eric

## Eric B. Aufderhaar, L.G. (he/him/his)

Hydrogeologist
Division of Waste Management
North Carolina Department of Environmental Quality
Office: (919) 707-8221 | Cell: (919) 576-4968

Email Address: <a href="mailto:Eric.Aufderhaar@deq.nc.gov">Eric.Aufderhaar@deq.nc.gov</a>



Email correspondence to and from this address is subject to the North Carolina Public Records Law and may be disclosed to third parties.

Email correspondence to and from this address may be subject to the North Carolina Public Records Law and may be disclosed to third parties by an authorized state official.

Gary D. Babb, P.G. Babb & Associates, P.A. 5506 Bradford Pear Court Raleigh, NC 27606 (919) 605-4719