

March 7, 2024

VIA ELECTRONIC MAIL (Kimberly, Kaal@shell.com)

Ms. Kimberly Kaal, P.G. Environmental Manager, Attorney-in-Fact Shell Chemical Appalachia LLC 300 Frankfort Road Monaca, PA 15061-2210

Re: Impingement and Entrainment (I&E) Sampling Plan

Shell Polymers Monaca Site NPDES Permit PA0002208 Potter Township, Beaver County

Dear Ms. Kaal:

The Department of Environmental Protection (DEP) reviewed Shell Chemical Appalachia LLC's revised I&E Characterization Study Sampling and Analysis Plan ("Revised Sampling Plan") submitted to DEP on February 9, 2024 pursuant to Part C, Condition XI.E of NPDES Permit PA0002208 and DEP's January 10, 2024 comment letter on the original Sampling Plan submitted on October 14, 2023.

DEP approves the Revised Sampling Plan with one recommendation with respect to the timing of peak entrainment data collection. Data available to DEP generally indicate that increased entrainment begins in May. However, one long-term dataset of ichthyoplankton concentrations in the Ohio River showed one year out of several had an increase in larval and egg density beginning in April. Depending on the timing of the Monaca Plant reaching normal operations and the length of time needed to complete the impingement efficiency study, DEP recommends that bi-weekly sampling begin no later than May 1, 2024, if not an earlier date between April 1, 2024 and April 30, 2024.

If you have any questions, please contact me at 412.442.4144 or rydecker@pa.gov.

Sincerely,

Ryan C. Decker, P.E. Environmental Engineer Clean Water Program cc: William Watson, Operations Manager – Shell (William.Watson@shell.com)

Jason Schultz, Environmental Engineer – Shell (<u>Jason.Schultz2@shell.com</u>)

Martin Padila – Shell (Martin.Padila@shell.com)

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Michael Fifth, P.E., Environmental Engineer Manager – DEP (<u>mfifth@pa.gov</u>)

Christopher Kriley, P.E., Environmental Program Manager – DEP (ckriley@pa.gov)

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