

September 24, 2025  
File No. 27224512.25

Mr. Mike Smith, P.E.  
Iowa Department of Natural Resources  
Land Quality Bureau  
6200 Park Avenue  
Des Moines, Iowa 50321

Subject: 2025 Spring Sampling Notification  
Southeast Iowa Multi-County (SEMCO) Sanitary Landfill  
Permit No. 54-SDP-01-75P

Dear Mike:

SCS Engineers, on behalf of the Southeast Iowa Multi-County Solid Waste Agency (SEMCO), is submitting herewith a summary of the 1<sup>st</sup> 2025 semi-annual groundwater sampling event for the SEMCO Sanitary Landfill (Landfill) in general accordance with the Iowa Administrative Code (IAC) 567-113.10(5) and 113.10(6).

During the 2<sup>nd</sup> 2024 statistical evaluation, a statistically significant increase (SSI) above background was indicated for arsenic in monitoring well MW-20. Retesting occurred in February 2025, and the measured arsenic concentration (0.00611 mg/L) exceeded the prediction limit of 0.00274 mg/L. However, the location of the monitoring well next to a newly constructed landfill cell, the very low arsenic concentrations, and no volatile organic compound (VOC) detections indicated that the monitoring well was not impacted and the arsenic concentration above the prediction limit was not the result of a release from the Landfill; the Iowa Department of Natural Resources approved the alternative arsenic source evaluation for MW-20 in correspondence dated July 15, 2024 (Doc #110470). For the 1<sup>st</sup> 2025 statistical evaluation reported herein, prediction limits for monitoring well MW-20 were calculated using both interwell and intrawell statistical methods. No SSIs were indicated in monitoring well MW-20 using the intrawell method, so the indicated interwell SSI was not confirmed.

Groundwater sampling was completed June 2-3, 2025, and the associated field sheets were completed. The samples were shipped and received at the laboratory in acceptable condition, meeting the preservation requirements and maintained at the appropriate temperature. Statistical evaluation was performed using analytical data received from the laboratory. Data validation procedures were conducted prior to statistical evaluation. The field sheets, laboratory analytical reports, data validation documentation, and statistical output from the statistical evaluation will be included in the 2025 Annual Water Quality Report.

Statistical evaluation results for the Landfill 1<sup>st</sup> 2025 semi-annual sampling event are summarized in Table 1.



**Table 1**  
**1<sup>st</sup> 2025 Statistical Evaluation Summary**

Monitoring Point	Monitoring Program	Indicated SSIs	SSLs
MW-19	Background	Background	
MW-5	Assessment	Arsenic, Nickel, 4,4-DDT, Endosulfan Sulfate, Methoxychlor	None
MW-7	Assessment	Arsenic	None
MW-9R	Assessment	None	None
MW-13	Detection	None	-
MW-14	Assessment	No sample (insufficient water)	None
MW-20	Detection	None	-
MW-21	Detection	None	-
MW-23	Detection	No sample (insufficient water)	-
MW-25	Assessment	Arsenic, Benzene, cis-1,2-Dichloroethene	None
MW-26	Assessment	None	None
MW-27	Detection	None	-
MW-28	Assessment	Arsenic, Nickel	None
MW-29	Assessment	None	None
MW-34	Detection	None	-
UD-2	Detection	No sample (insufficient water)	-
UD-3	Detection	No sample (insufficient water)	-

There were eleven indicated well/detected constituent pairs with statistically significant increases (SSIs) above background. The monitoring wells in assessment monitoring do not require a retest; therefore, the SSIs were not confirmed. Background sampling for the initial pesticide detections in monitoring well MW-5 performed on September 11, 2025, resulted in no detections of 4,4-DDT, endosulfan sulfate, and methoxychlor, so the quantified detections were not verified.

No exceedances of the groundwater protection standards (GWPSs) at statistically significant levels (SSLs) for the monitoring wells in the assessment monitoring program were identified during the 1<sup>st</sup> 2025 semi-annual statistical evaluation.

No changes to the Landfill's monitoring program are recommended based on the results from the 1<sup>st</sup> 2025 semi-annual sampling event.

Services were performed in general accordance with IAC 567-113.10 and the current requirements for implementation of the HMSP for the Landfill. This correspondence constitutes the 2025 Spring Sampling Notification.

Mike Smith  
September 24, 2025  
Page 3

If you have any questions regarding this notification, please contact Nathan Ohrt at (319) 331-9613.

Sincerely,



Nathan Ohrt  
Senior Project Professional  
SCS Engineers



Sean Marczewski  
Senior Project Professional  
SCS Engineers

NPO/SAM

Copies: Mr. Bill Sloop, SEMCO Sanitary Landfill