

August 12, 2022

Dear Business Owner:

Hanson Aggregates Pacific Southwest LLC (Hanson) is required by the San Diego County Air Pollution Control District (SDAPCD) to conduct periodic health risk assessments that evaluate air pollutants released from the Miramar Hanson Aggregates Ready Mix facility located at 9229 Harris Plant Road in San Diego, CA.

You are receiving this letter because your business is within an area predicted to have a chronic health risk above the public notification threshold as a result of the 2017 facility operations.

This letter describes the nature and context of the potential impacts to help you evaluate the information in this required public notification.

About the Health Risk Assessment

Health risk assessments provide a health protective estimate of the chance that a person may experience a health effect from exposure to chemicals based on computer modeling.

While any emission of toxic air pollutants is a concern to Hanson, the estimated risk discussed in this notice is based on assuming a person is working full-time at the same location over a long-term period and is exposed to 2017 facility emission levels.

The health risk assessment used regulatory models that are designed to ensure impacts are not underestimated; for example, the toxicity factors include safety and uncertainty factors to adjust the data from animal studies to humans.

While risk assessments can be used to estimate whether current or future chemical exposures can pose health risks to a broad population, they cannot predict actual health risks or be used to determine if a particular health issue was caused by a particular chemical.

Results of the Health Risk Assessment

The risk assessment approved by the SDAPCD indicated that four businesses are located within an area that may experience non-cancer chronic health impacts due to the facility's operations.

The public notification thresholds are set at a level designed to protect the most sensitive individuals in the population. If a chronic risk is predicted to be equal to or greater than 1, this means there is a potential for a health impact due to a long-term exposure. The modeling predicted the maximum occupational chronic risk to be 2.58.

The SDAPCD health risk assessment indicated that the dust from unpaved haul roads would account for 84% of the predicted risk, primarily from arsenic and silica. Soil contains naturally occurring toxics such as arsenic and silica, and when trucks drive along unpaved roads, they stir up these toxics. The haul road emissions were calculated based on the SDAPCD's default values for silt content and toxic pollutant emission factors.

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Emission Reduction Measures

As part of this health risk assessment, Hanson is required to submit a risk reduction plan to the SDAPCD by October 2022.

The quantity of toxics varies in all soils; thus, on-site sampling is the most accurate way to reflect the actual quantity of these toxics. Hanson proposes to conduct SDAPCD approved sampling to accurately represent the silt content and toxics in the road dust and revise the health risk assessment to demonstrate that risks would be below the notification thresholds, based on the actual sampling results.

Hanson will implement road dust mitigation measures as needed, such as frequent road watering or application of road sealant. Hanson continually examines potential opportunities for emission reductions associated with all sources at this site.

The SDAPCD will evaluate the impact of these changes on potential health risks when Hanson submits the risk reduction plan to the SDAPCD.

About the Hanson Miramar Ready Mix Facility

The Hanson ready mix facility produces high-quality ready-mix concrete to supply the construction needs of the San Diego area. Concrete is a composite material composed of fine and coarse aggregate bonded together with Portland cement that hardens over time. Concrete is the second-most-used substance in the world after water and is the most widely used building material.

More Information

For more information regarding the facility, please contact me at (925)-365-0004 or Erika.Guerra@martinmarietta.com.

Sincerely,



Erika Guerra
Environmental and Land Director
Hanson Aggregates Pacific Southwest, LLC