

Appendix B

NJDEP IGWSRS Approvals



State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION
Site Remediation and Waste Management Program
DIVISION OF ENFORCEMENT, TECHNICAL & FINANCIAL SUPPORT
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PHIL MURPHY
Governor

CATHERINE McCABE
Commissioner

SHEILA OLIVER
Lt. Governor

MEMORANDUM

TO: *David Doyle, Case Manager, Remediation Oversight Element*

FROM: *Erica Snyder, Research Scientist, BEERA/ETRA*

SUBJECT: *Hudson County Chromate Site 174
West 1st Street
City of Bayonne, Hudson County
Alternative Soil Remediation Standards for Vanadium and Nickel
PI# G000011472*

DATE: *August 15, 2019*

ETRA has evaluated an Alternative or New Soil Remediation Standard (ARS) Application Form (received August 6, 2019) submitted to the Department for the above Hudson County Chromate Site 174. The property is under direct oversight and does not have a Licensed Site Remediation Professional (LSRP) assigned to the site. ARS were requested for vanadium, based on the ingestion-dermal pathway, and nickel, based on the impact to ground water (IGW) pathway. See comments for each contaminant below.

Vanadium

The submittal requested that an ARS for vanadium of 390 mg/kg for residential use is appropriate based on updated toxicity information found in EPA's *Integrated Risk Information System (IRIS)* and recorded in EPA's *Regional Screening Level (RSL) Tables (May 2019)*. The concentration of vanadium on site ranged up to 134 mg/kg, which exceeds the current vanadium residential standard (78 mg/kg). The submittal has been reviewed and an ARS for vanadium of 390 mg/kg for residential use is approved on a site-specific basis using DEP standard exposure assumptions.

Nickel

The Synthetic Precipitation Leaching Procedure (SPLP) spreadsheet included with the submission was reviewed and provided that the sampling is representative of the Area of

Concern (AOC) and the QA/QC is acceptable, the proposed IGW ARS of 1,100 mg/kg for nickel is approved.

If you have any questions regarding this notice, you may contact Erica Snyder at (609) 984-0325 for issues related to the ingestion-dermal pathway or Swati Toppin at (609) 777-1950 for issues related to the IGW pathway.

c: Kevin Schick, Bureau Chief, BEERA
Swati Toppin, BEERA/ETRA