

MUNICIPAL & INDUSTRIAL WASTEWATER TREATMENT Heavy Metal Precipitation



Today's effluents are required to be free of both organic and inorganic compounds. The importance of reducing and removing heavy metals is more important than ever. Heavy metals are not only toxic to aquatic life in general, but to the environment as a whole and, can also hinder the biological activity in today's treatment processes.

Coyne Environmental is uniquely positioned with the most comprehensive collection of treatment options available to assist the municipal and industrial water and wastewater treatment industries in meeting your specific treatment goals.



MUNICIPAL & INDUSTRIAL WASTEWATER TREATMENT

Heavy Metal Precipitation

The technology of reducing and removing heavy metals from waste process flows has been around for decades. Many of those older technologies utilize hazardous chemicals to achieve specific treatment goals. Today's challenge is the reduction of heavy metals to all-time lows without imparting further environmental damage.

While the chemistries of yesterday are still available, and continue to be used in today's market, there are many new treatment options available that are less toxic to the environment, while providing optimal treatment. Often, to achieve the lower limits of today's effluent criteria, combinations of several treatment processes are required including pH adjustments, oxidizers, coagulants, and polymers — in conjunction with the metal precipitants. Having all of these technologies available makes Coyne Environmental a valuable partner in determining the most cost-effective treatment program for your requirments.

Whether your needs are atmospheric or aqueous treatments, whether you discharge directly to the environment, or pretreat and discharge to a POTW, Coyne Environmental Services can help determine the best treatment program available.

To speak with one of our Chemical Applications Specialist, or to schedule a product evaluation, or to obtain additional product information, please feel free to contact our offices at: **215-785-3000**.

Or visit us at: www.coyneenvironmental.com

PRODUCTS

- Aluminum Chlorhydrate Calcium Polysulfide Carbon *(Powdered / Granular)* Dimethyldithiocarbamate *(DTC)* Ferrous Chloride Ferrous Sulfate Hydrazine Hydrate
- Hydropolysulfides Inorganic / Organic Blends Oxidizers / Reducers Polyaluminum Chloride Polythiocarbamate Sodium Hydrosulfide Sodium Polysulfide

APPLICATIONS

Groundwater & Soil Remediation Sites Frack Water Treatment Heavy Metals Removal Increase Filter Runs Reduced Alkalinity Demands Reduce Effluent Toxicity Reduced Sludge Production

HEAVY METALS REMOVAL

Cadmium (Cd) Cobalt (Co) Copper (Cu) Chrome (Cr) Chromium (Cr) Gold (Au) Iron (Fe) Lead (Pb) Manganese (Mn) Mercury (Hg) Nickel (Ni) Silver (Ag) Tin (Sn) Zinc (Zn)

Coyne Chemical Environmental Services provides practical, economical, and user-specific solutions to virtually any municipal or industrial water and wastewater treatment challenge.