

Black Hills Plating

Rapid City, South Dakota



DENR
SOUTH DAKOTA

Valeriy Bizyayev, OSC

Todd DeGarmo, OSC

Craig Giggelman, OSC

Background

- Former metal plating business that lost their lease.
- Relocated chemicals and chemical wastes to a friend's garage for *temporary* storage.
- Business never got back up and running.
- DENR tried to work with the owner for compliance but they did not have the financial means to address wastes appropriately.

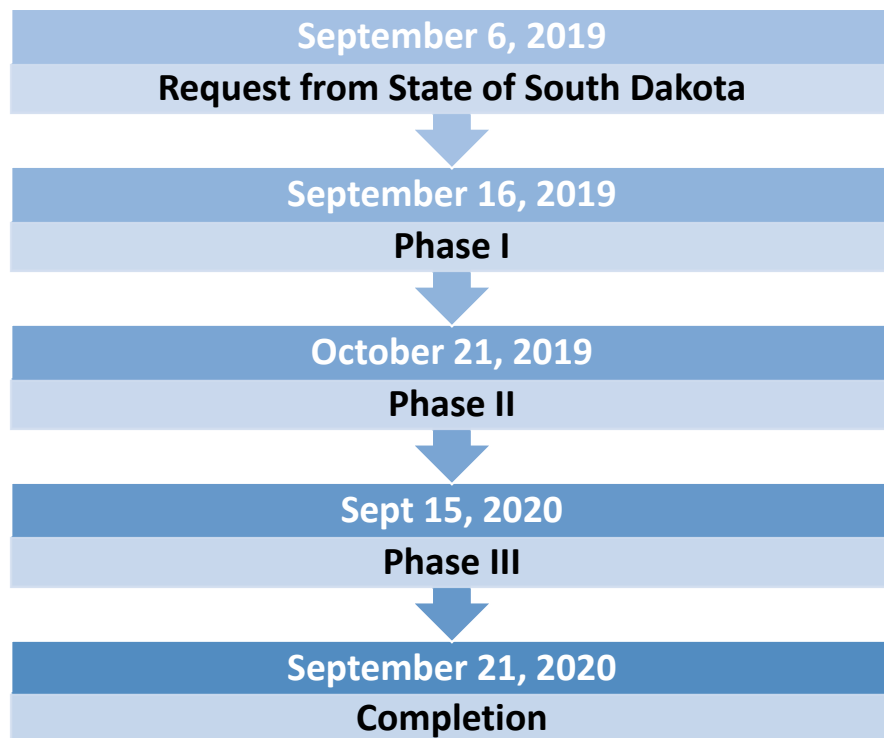


Location

- Ashland Heights area of Rapid City, SD
- Mixed use property
 - Diesel mechanic shop on site
 - Stored vehicles and trailers
- Children within proximity



Timeline



Request from South Dakota

- SD DENR made several attempts to work with waste owner to come into compliance.
- Waste owner does not have the financial standing to properly dispose.
- Request letter asked the EPA Removal Program to assist the state in addressing plating waste on a residential property. DENR requested ***EPA to assess, cleanup and dispose of the stockpiled chemical waste.***



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182

denr.sd.gov

September 6, 2019

Laura Williams
Response Unit Chief
U.S. Environmental Protection Agency
1595 Wynkoop Street
Denver, Colorado 80202-1129

Re: Potential CERCLA Removal Action. Stockpiled chemical from a former plating business, stored at 5312 Mystic Drive, Rapid City, Pennington County, South Dakota

Dear Ms. Williams: *Laura*

The South Dakota Department of Environment and Natural Resources (DENR) is requesting US EPA assistance with assessment, cleanup, and disposal of stockpiled chemical and wastes stored on a property in Pennington County.

Black Hills Plating and Polishing went out of business several years ago. When the company

Phase I

- EPA and Contractors mobilized to site to conduct assessment of the site and chemical wastes.
- Initial information was conveyed from DENR on contents and history





Inventory



<u>HazClass</u>	<u>Drums</u>	<u>Tanks</u>	<u>Containers</u>	<u>Total</u>
5	13	2	6	21
6	6	2	-	8
8	-	-	14	14
9	6	-	20	26
Total	25	4	39	69

Examples: Sulfuric acid (93% solution), Sodium cyanide, Sodium hydroxide, Hydrochloric acid, Hexavalent chromate, &Unknowns





Phase I Completion

Once all chemical waste was stabilized, EPA created a temporary storage area to allow for time to secure transportation and disposal.



Phase II

Secured contract
for off-site
transportation and
disposal of
chemical wastes
from the garage.



Phase II Discovery

- An additional set of tanks were disclosed/discovered at the back of the property.
- Tanks were hidden away from garage area and previously not disclosed by waste owner or property owner.



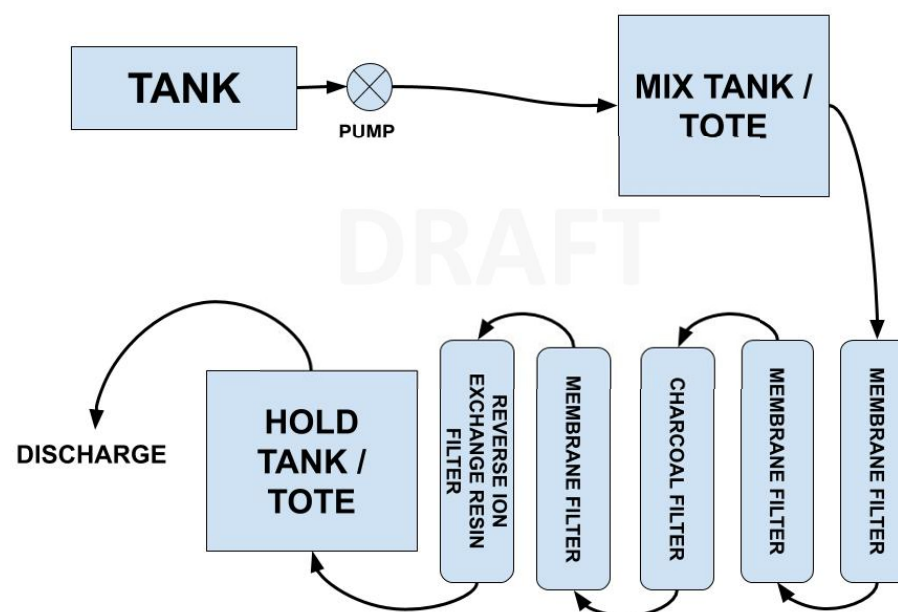
Phase III Pre-Planning

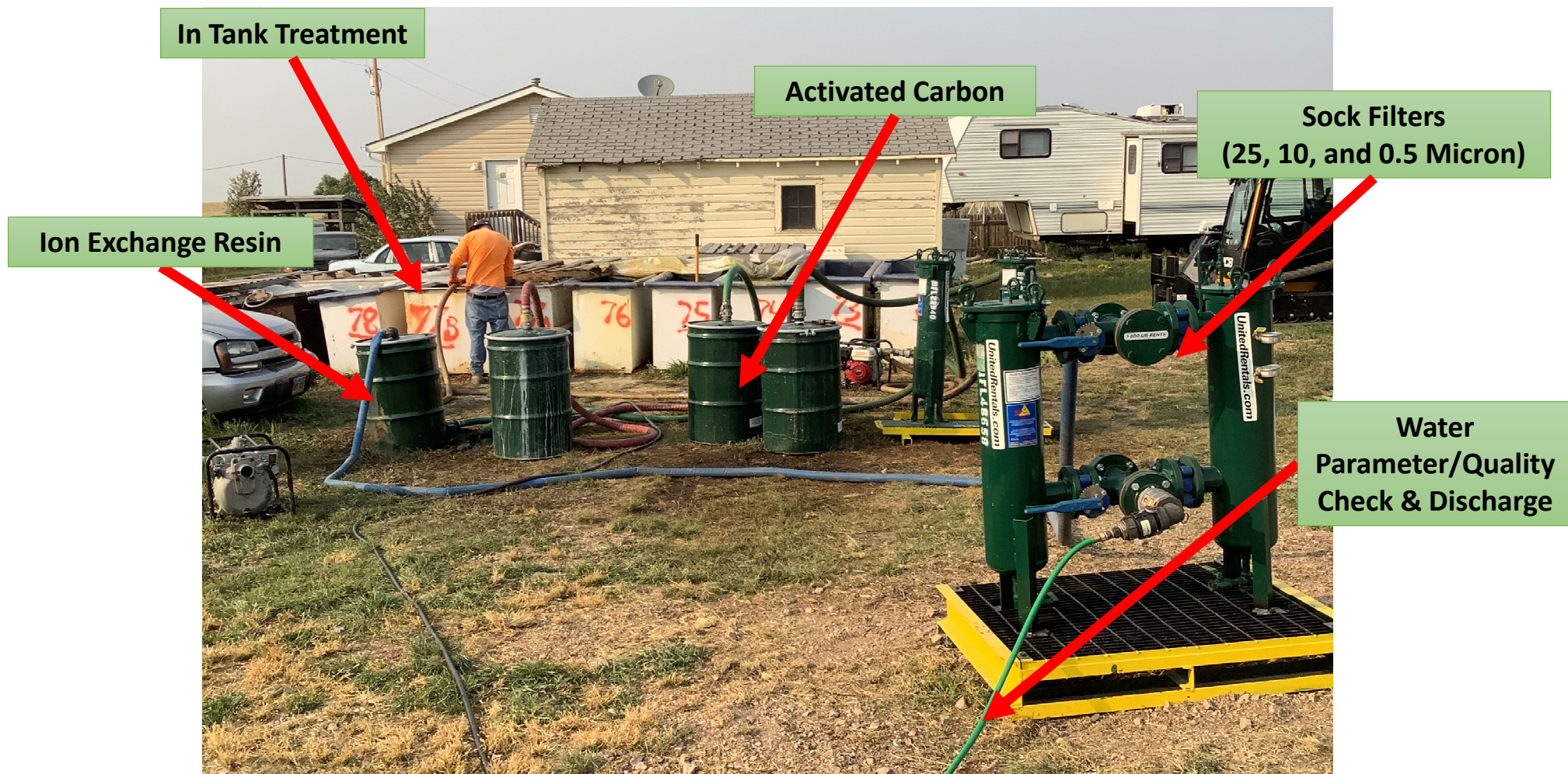
- Tanks were assessed by DENR and EPA
- Tanks were characteristic of impacted water (from environmental exposures)
- Identified as old process tanks by chemical waste owner.
- Tanks secured until EPA could remobilize



Phase III Tank Approach

- Based on the tank assessments and site knowledge, EPA decided to treat and filter tanks on Site





Completion

- All impacted water was treated and discharged per OSC direction on site.
- Tanks were sent off site for disposal
- Residue was solidified and set off site for disposal



Questions?

[Response.epa.gov/BlackHillsPlating](https://response.epa.gov/BlackHillsPlating)

Thank you to DENR for the support and help on the project!