



State of Nevada  
 Division of Environmental Protection  
 Bureau of Corrective Actions

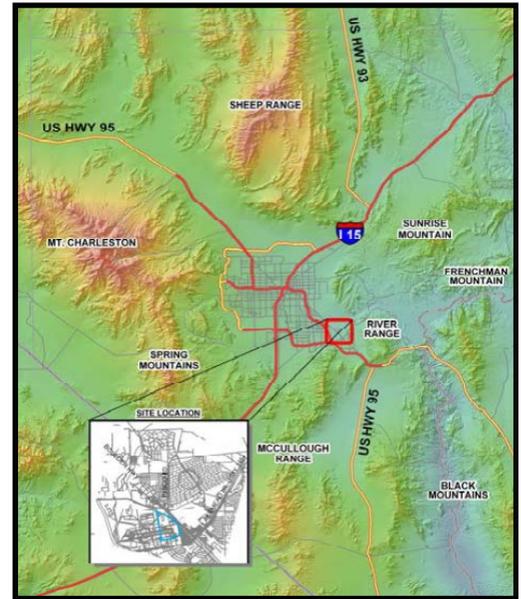


## TITANIUM METALS CORPORATION



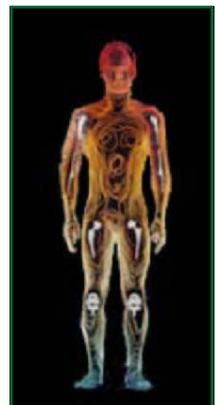
Titanium Metals Corporation (TIMET) is one of the world's largest producers of high quality titanium products for aerospace, industrial and consumer applications. Activities completed at the Henderson manufacturing facility include converting rutile ore into titanium sponge, ingot, slab, and mill products.

TIMET is head-quartered in Exton, Pennsylvania and has research, manufacturing, and distribution facilities worldwide.



### Titanium Production

TIMET is a recognized leader in titanium quality and technology producing 6,000 metric tons of titanium sponge per year. Titanium's unique combination of strength, weight, and corrosion resistance makes it ideal for critical applications. Because titanium is nearly half the weight of steel, the aerospace industry depends heavily upon titanium as a major component in engines, airframes, and landing gear. Titanium is also specified in hundreds of applications such as high-tech architectural material, deep-sea drilling operations, power generation, chemical processing, pollution control, sporting goods, medical instruments, and medical implants.



## Environmental Investigations and Update of the Conceptual Site Model

Historical sampling and analysis of groundwater from monitoring has revealed impacted groundwater. Groundwater impacts are believed to originate from non-TIMET sources located to the west of the facility as well as from historic practices.

During 2013-2014 investigations of environmental conditions at TIMET continued and an updated Conceptual Site Model was prepared and submitted to NDEP on July 11, 2014.

## Remedial Action in the First Water-Bearing Zone (Completed March 2014)

The remedial action to clean-up groundwater in the First Water-Bearing Zone was designed based on extensive analyses of remedial alternatives. Details can be found in the "Remedial Alternative Analysis for the First Water-Bearing Zone" report. The selected remedy consists of an underground barrier wall to prevent impacted groundwater from leaving the property. The barrier wall is 2410 feet in length and extends from the ground surface to a depth of approximately 60 feet. A line of groundwater extraction wells are located behind the barrier wall and pump groundwater to an above-ground treatment plant.



## **Cleanout of the HP-1 Pond (Completed August 2013)**

TIMET removed all sediment from the HP-1 Pond and disposed of the material off-site at a permitted facility. The existing liner system was removed and replaced with a new liner system.

## **Remediation of the Beta & Northwest Ditch (Completed October 2013)**

The Beta & Northwest Ditch was a “common drainage ditch” that flowed from west to east across the northern portion of the BMI Complex. Remediation of the portion of the ditch located on TIMET property was completed during 2013. Approximately 57,000 tons of impacted soils were excavated and disposed off-site at a permitted facility.

## **Upcoming Activities**

- Improvement of the TIMET Water Conservation Facility to more effectively treat groundwater
- Continued regular monitoring of groundwater conditions
- Site improvements including installation of an engineered cover system to prevent dust generation and erosion
- Collaboration with industrial neighbors of the BMI Industrial Complex regarding issues of regional interest

NDEP oversees all aspects of the environmental work at the facility. Additional information can be obtained from Michael Friend (702-486-2850 ext. 247) at NDEP. Previous reports related to the environmental work at the facility can be found at <http://www.timet.com/html/Environmental/index.asp>.