City of Ione WWTP

PROJECT NAME:
City of Ione WWTP

PROJECT DATE:
2018

PROJECT LOCATION:
Ione, CA

PROJECT APPLICATION:
Waste Water Treatment Plant

PROJECT SPECS:
City of Ione, CA – Dexter Wilson Engineering

RAVEN MATERIAL USED:
DuraSkrim® N45B 45mil Reinforced LLDPE - approximately 700k SF

INDUSTRY CHALLENGES:
Original 60mil HDPE specified material was unavailable within the time parameters set for the project.

PROJECT SOLUTION:
- Raven CLI assisted Dexter Wilson by providing an alternative material, DuraSkrim N45B.
- DuraSkrim N45B was determined to be a physically stronger material than the original 60mil HDPE, with greater puncture and tear resistances.
- DuraSkrim N45B was a fabricated product, meaning the majority of the seams were performed in a fabrication plant under standard wage rates. The project required any onsite work to be performed under prevailing wage rates. So by performing most of the work in fabrication, we ended up staying below the budget that was given for 60mil HDPE.
- At the time of this contract, HDPE was unavailable for 6 months. With our DuraSkrim N45B, we had the material fabricated and delivered to the jobsite in 3 weeks after the contract was executed.

PROJECT CHALLENGES:
- The City of Ione had a public works project under contract in 2018 with another contractor. The contract was for the re-lining of (5) storage ponds at the Ione Wastewater Treatment Plant. The original material specified was 60mil HDPE.
- The contract had a time window of 3 months to take the first two ponds offline, install the new liner, and put them back online again. Two weeks into the three month window, the City of Ione was notified by their contractor that 60mil HDPE was in low supply in the market, and would not be available for another 6 months.

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PROJECT SOLUTIONS:

- Enter Raven CLI. We were onsite at another project in the area when we were approached by the City of Ione for any possible solutions. We provided the city with an alternative material, DuraSkrim N45B 45mil Reinforced LLDPE. DuraSkrim N45B was determined to be a physically stronger material in a side-by-side comparison with the 60mil HDPE.
- DuraSkrim N45B also provided the advantage of factory fabrication, which reduced the overall contract cost by moving a majority of the work into a factory and outside of prevailing wage. However, the greatest advantage provided was the lead time of the material. While HDPE had a lead time of 6 months at the time, DuraSkrim N45B was readily in stock and available. Within three weeks of contract execution, we had the material fabricated and delivered on-site.

PROJECT IMAGES: