

# BAM Soil Mix PFAS

Former Tannery – Northeast Michigan

## Soil Treatment

**Project Summary:** ORIN conducted a pilot test to treat soil contaminated with PFAS using BAM X, a pyrolyzed cellulosic material. BAM X was applied directly to 30 cubic yards of contaminated soils and thoroughly mixed with an excavator. Samples were collected immediately after soil mixing, one year post soil mix, and three years post soil mix.

### Site Conditions:

#### Soil Contaminants –

PFAS: Total = 42.6 ng/g

TCLP = 574 ng/l

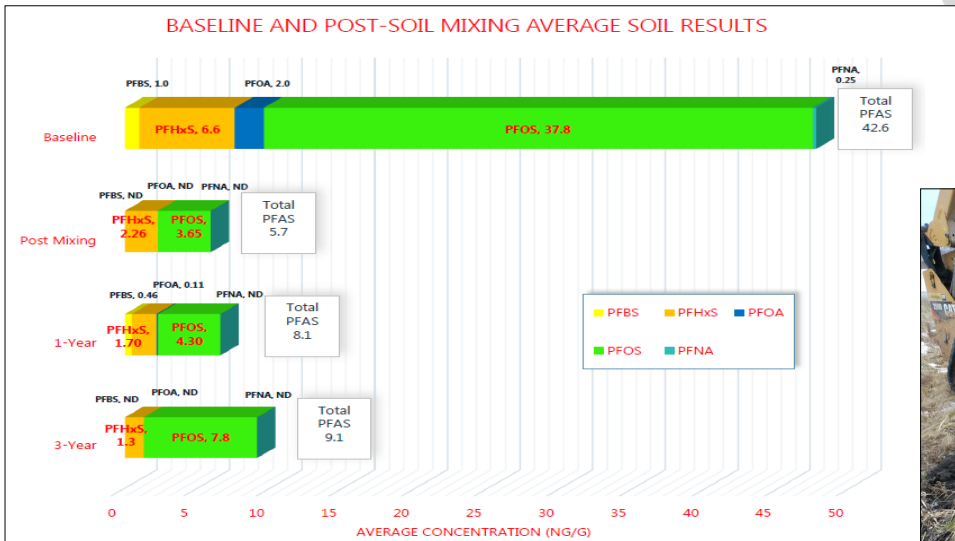
SPLP = 212 ng/l

#### Impacted Matrix –

Silty Sands with Organics

#### Treatment Chemistry –

BAM X



**Project Results:** Following the application of BAM X, total concentrations decrease by 86% with no detections for PFBS, PFOA, or PFNA. A slight increase is observed in PFOS concentrations, whereas PFHxS and PFBS continued to decline year over year. Overall Total PFAS is 79% lower than initial concentrations.

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**Project Results:** TCLP and SPLP samples were collected on the same schedule as totals. TCLP analysis showed a continuous decrease in all PFAS compounds with a 96.8% reduction after three years.

SPLP analysis showed continuous reduction after 1 year with a slight rebound three years post mix. After three years post mixing, SPLP analysis for all PFAS compounds showed a 69% reduction from pre-treatment analysis.

