

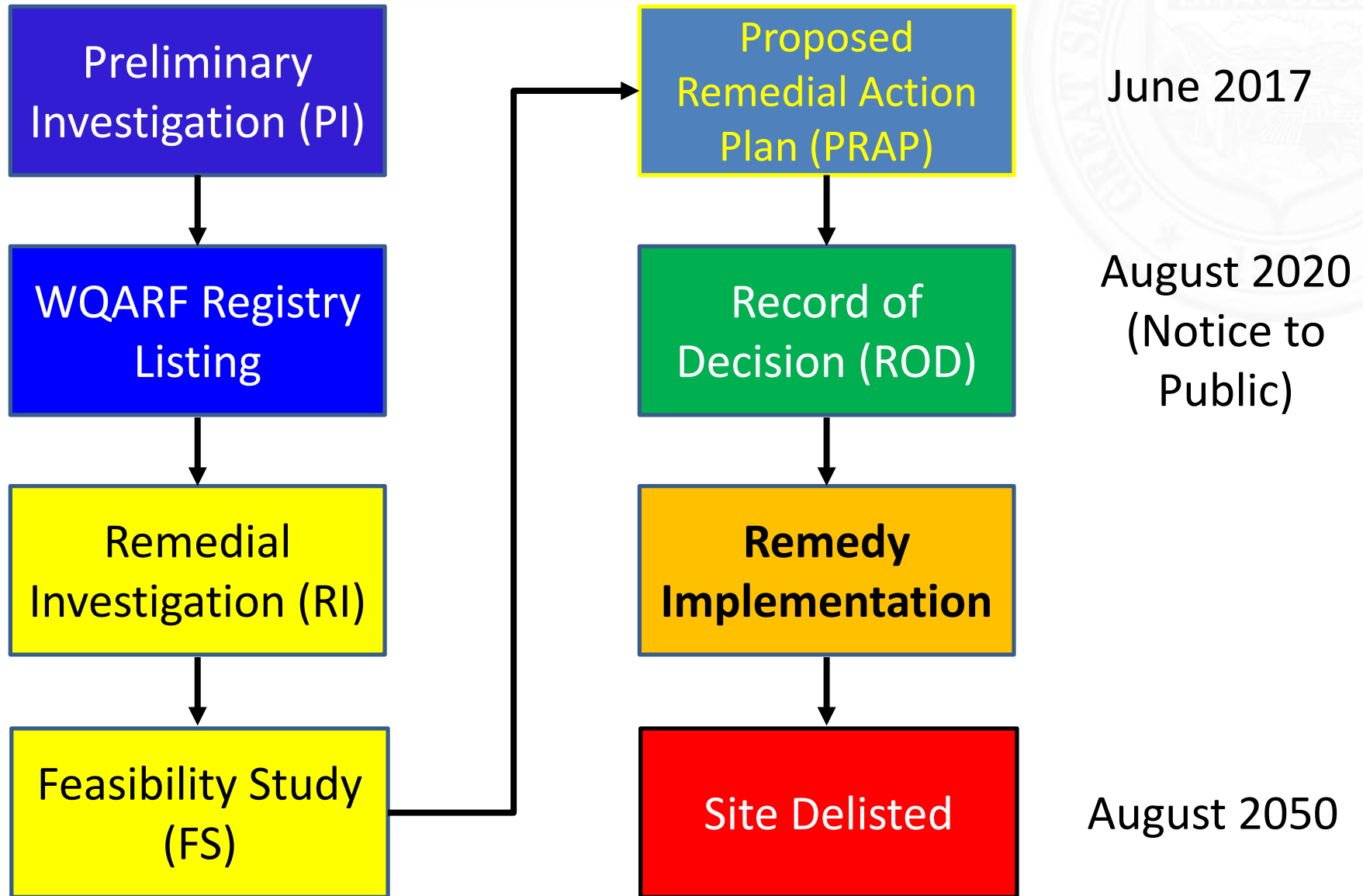
Project Update

WCP – North Plume WQARF Site

Tom Titus
Public Meeting
October 15, 2020

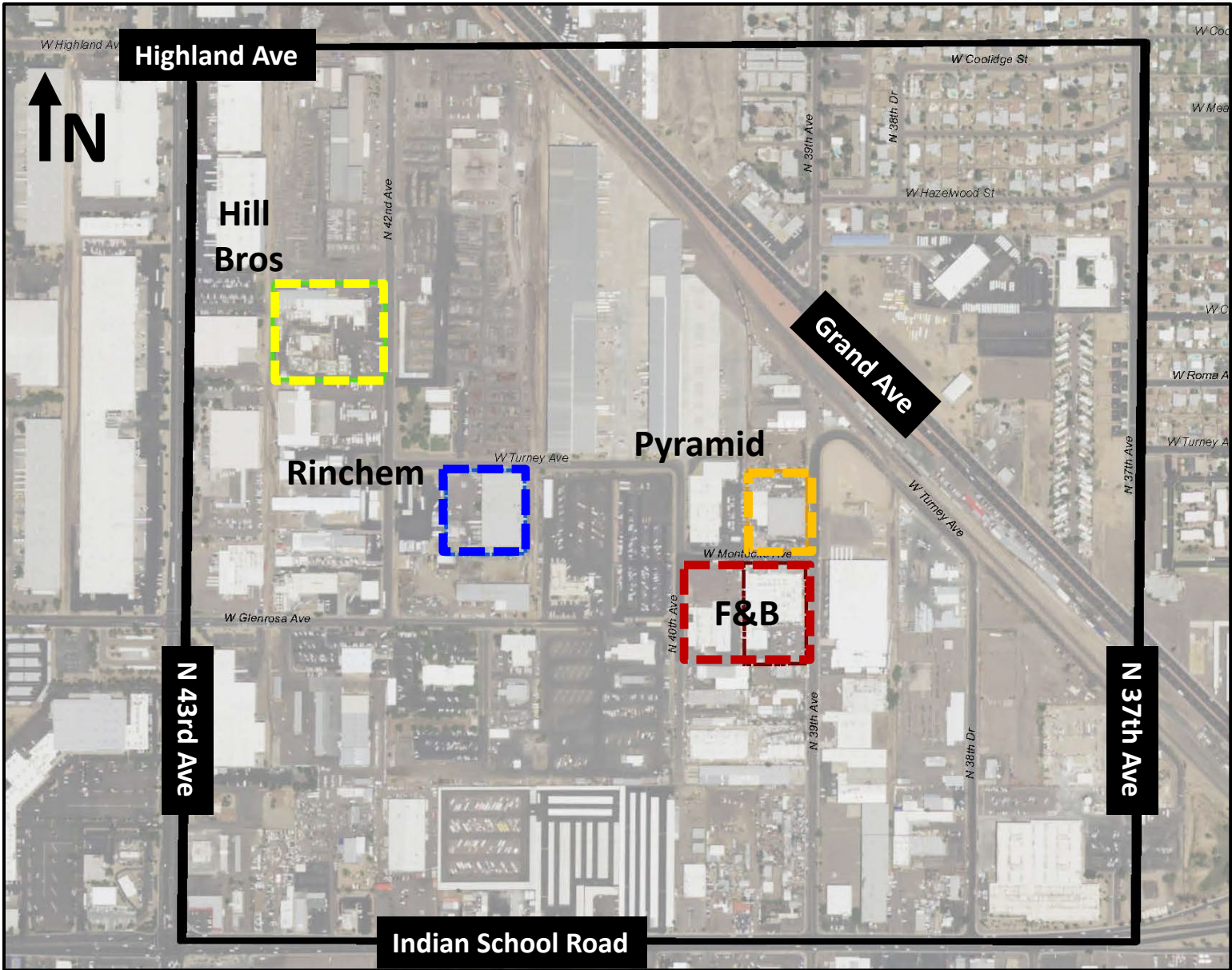


WQARF Process

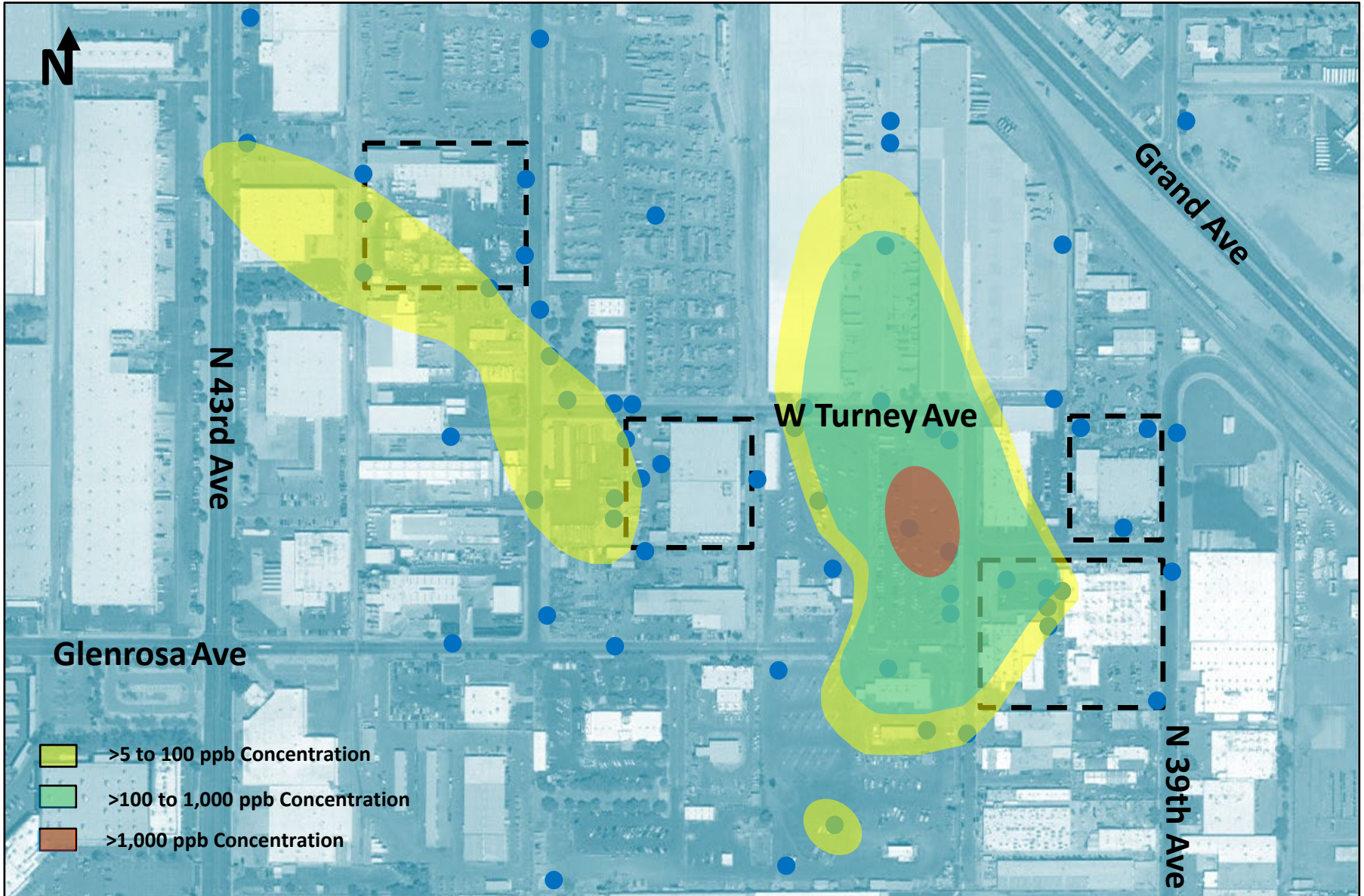


- Soil and Groundwater Impacted with Concentrations of Tetrachloroethene (PCE) and Trichloroethene (TCE) above Regulatory Standards
- Soil is Continuing Source of Groundwater Contamination at F&B Facility
- Groundwater Is Future Source of Drinking Water

Site Location Map



VOC Concentrations (April 2019)

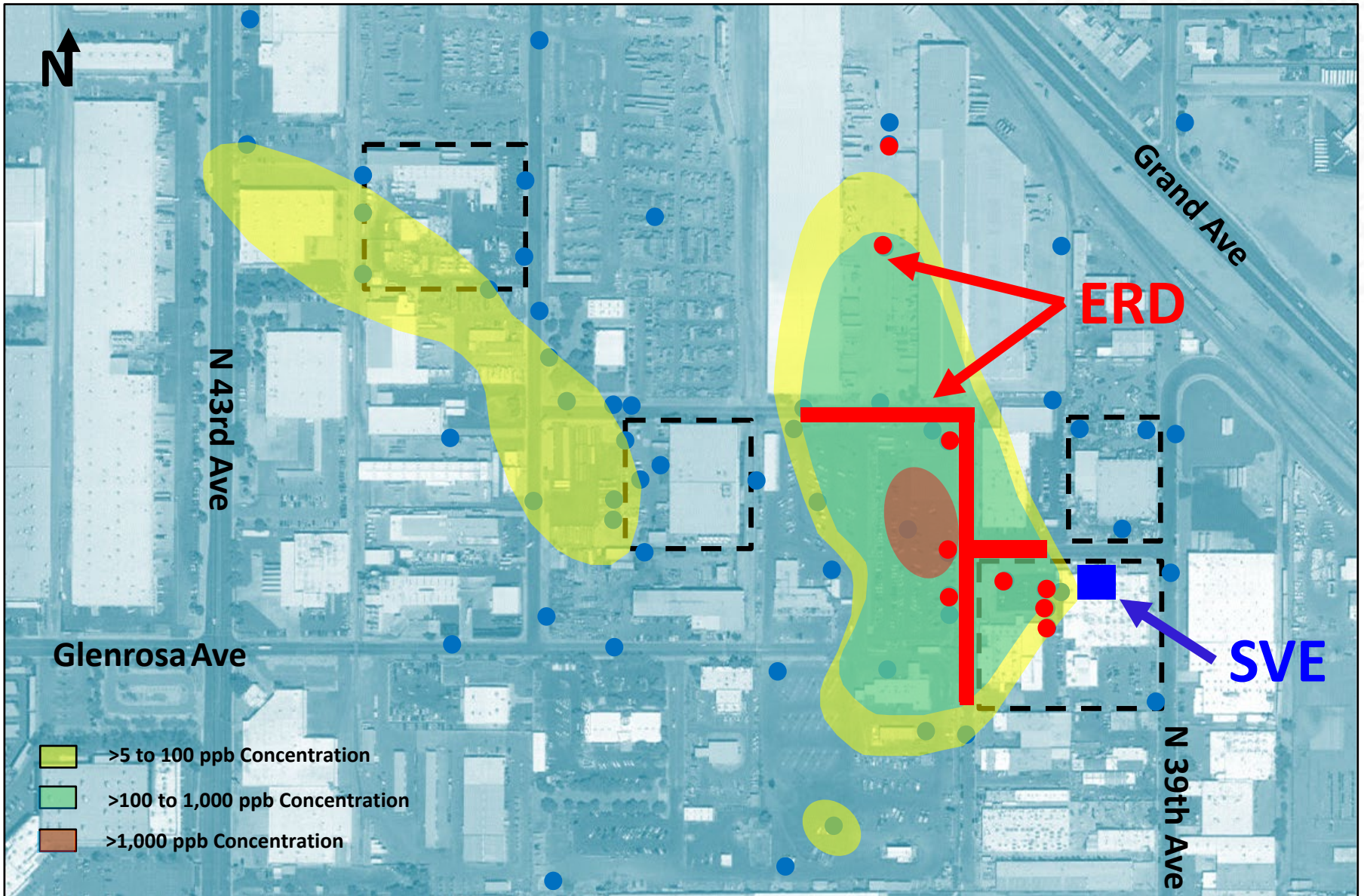


- Soil Vapor Extraction (SVE) for Clean-Up of Soil at Source Area
- In-Situ Enhanced Reductive Dechlorination (ERD) for Clean-Up of the Groundwater
- Monitored Natural Attenuation (MNA) to Monitor the Natural Degradation of the Groundwater Contamination
- Contingencies
 - Wellhead Treatment at SRP Well
 - Additional ERD (to accelerate Site clean-up)

- Enhanced Reductive Dechlorination (ERD)
 - 34 Injection Wells (Nine Existing and 25 New)
 - Injection Wells Along Right-Of-Way Inside 100 ppb Concentration Contour
 - 10 Years of Injections
 - Performance Monitoring
- Soil Vapor Extraction (SVE)
 - Continue Operation of Existing System
 - Full-Scale Operation (1st Seven Years)
 - Focused/Pulsed Operation (Last 13 Years)

- Monitored Natural Attenuation (MNA)
 - 20 Monitoring Wells
 - Semi-Annual Monitoring & Sampling (1st 10 Years)
 - Annual Monitoring & Sampling (Last 20 Years)
 - Annual Reporting
- Wellhead Treatment (Contingency)
- Additional ERD (Contingency) to Accelerate Clean-Up

Remedy Infrastructure



Remedial Technology Summary

DITAT DEUS

Remedial Technology	Duration (Years)	Cost
SVE	20	\$2.25M
Groundwater Injections (ERD)	10	\$6.60M
Groundwater Monitoring (MNA)	30	\$1.65M
System Abandonment	--	\$0.75M
<i>SUBTOTAL</i>		<i>\$11.25M</i>
Wellhead Treatment (Contingency)	10	\$2.63M
Additional ERD (Contingency)	--	\$1.26M
TOTAL (with Contingencies)		\$15.14M

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