Soil Samples at Jana Elementary

What We Did:

- Soil sampling efforts were extended to soils adjacent to and surrounding Jana Elementary School October 26 - November 4, 2022.
 - Total number of sample locations: 126.
 - Total number of samples sent to the lab: 790.
 - Gamma walkover survey of school grounds: 305,101 data points.

What We Looked For:

- Historic fill zones.
- Sampling was conducted to look for primary contaminants the U.S. Army Corps of Engineers is responsible for cleaning up under FUSRAP.
 - Uranium-238.
 - Thorium-230.
 - Radium-226.

Table 1. Soil Sample Data Summary				
	Number of Samples	Mean	Maximum	Remediation Goals
	Surface S	Soil (0-0.5 ft)		÷
Radium-226 (pCi/g)	111	1.18	1.67	5
Thorium-230 (pCi/g)	111	1.75	4.05	14
Uranium-238 (pCi/g)	111	1.05	3.29	50
SOR _N	111	0.08	0.29	1
	Subsurface S	oil (0.5 ft to 6 ft)		
Radium-226 (pCi/g)	302	1.27	2.05	15
Thorium-230 (pCi/g)	302	1.89	9.65	15
Uranium-238 (pCi/g)	302	1.11	1.70	50
SOR _N	302	0.03	0.55	1
	Subsurface Soi	l (deeper than 6 ft)	1	
Radium-226 (pCi/g)	338	1.07	1.97	15
Thorium-230 (pCi/g)	338	1.61	3.12	15
Uranium-238 (pCi/g)	338	1.02	1.98	50
SOR _N	338	0.01	0.09	1
	Remediation Area Soil o	n School Parcel (al	ll depths)	
Radium-226 (pCi/g)	39	1.71	3.01	Remediation goals based on depth were applied as described above.
Thorium-230 (pCi/g)	39	9.13	34.3	
Uranium-238 (pCi/g)	39	1.11	1.47	
SOR _N	39	0.56	2.29	1

Notes: The reported maximum is the greatest detected result. Background concentrations are subtracted in the SOR_N calculation and for comparison to remediation goals

Key Takeaways:



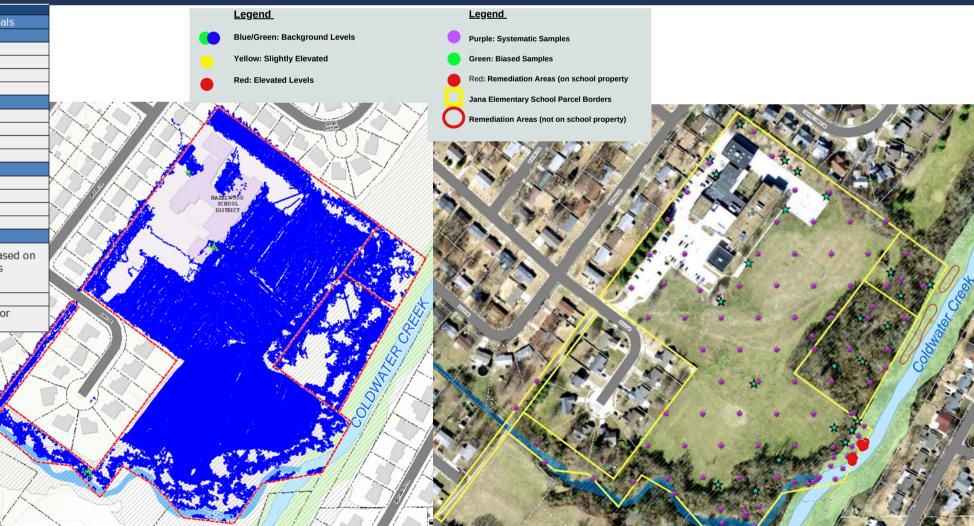
- Jana Elementary does not sit on a historic fill zone (building was built on native soil; no fill was brought in for school construction).
- No new soils contamination detected.

What We Found:

- Soil samples results show no new areas requiring remediation.

What It Means:

- the creek bank.
- The data confirms no path of migration to the school building.



• Current soil sample data indicates that surface and subsurface soil are far below — less than 10% on average — the cleanup goals stated in the Record of Decision for the North St. Louis County Formerly Utilized Sites Remedial Action Program (FUSRAP) Sites.

• The data confirms that contamination requiring remediation is limited to