

FUSRAP Sampling at the Tonawanda Landfill Tonawanda, New York

March 6, 2002

Project Engineer Buffalo District U.S. Army Corps of Engineers



FUSRAP Sampling at the US Army Corps of Engineers **Tonawanda Landfill**

Purpose of Meeting

- To discuss the sampling conducted by the Corps of Engineers in the Summer of 2001
- To answer questions and receive comments from the public regarding the site



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Site Investigation History

- DOE found material in the Landfill that was similar to material at other FUSRAP sites
- There is no evidence indicating where the material came from or how it got to the site
- 1999 Risk Assessment found site is within USEPA risk guidelines for current site use
- USACE is following up previous DOE investigations with a Remedial Investigation



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Gamma Walkover Survey

- Directly measures gamma radiation from the ground surface
- Used to help locate soil sampling locations





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Soil Sampling

- 210 sampling locations
- 453 soil samples collected
- Samples analyzed for radium, uranium and thorium





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Soil Sampling

- Soil cores were collected from the ground and scanned for radiation
- Two or more samples were collected from each soil core based on field measurements





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Landfill Sampling Results

•Concentrations in upper 2 feet

	DOE Sampling (pCi/g)	2001 Sampling (pCi/g)	Tonawanda Background (pCi/g)
Th-230	131	1.64	1.4
U-238	22.6	<mark>3</mark> .7	3.1
Ra-226	66.6	1.66	1.1

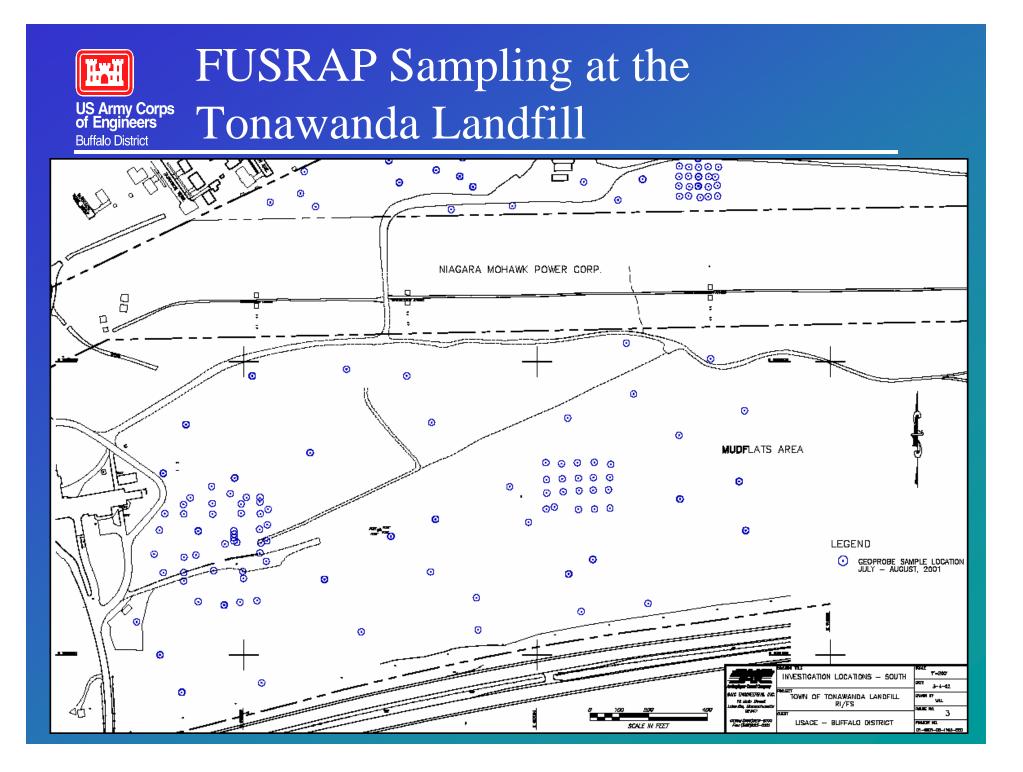


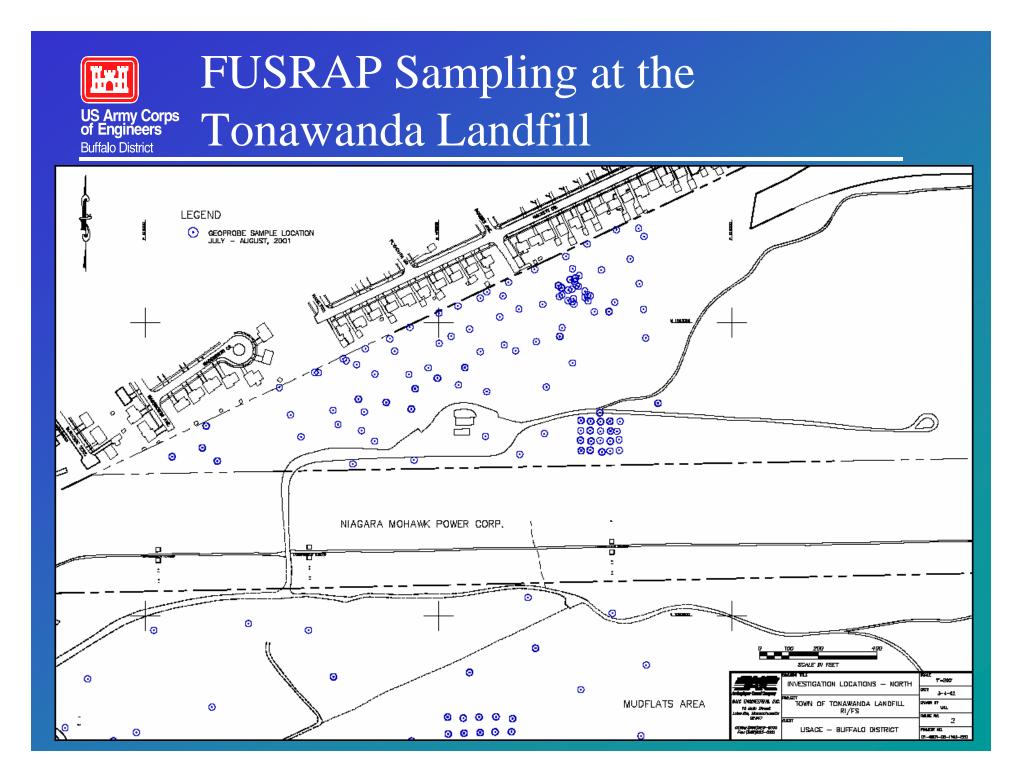
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Mudflats Sampling Results

•Concentrations in upper 2 feet

	DOE Sampling (pCi/g)	2001 Sampling (pCi/g)	Tonawanda Background (pCi/g)
Th-230	51.1	1.24	1.4
U-238	1 <mark>3.2</mark>	0.98	3.1
Ra-226	13.1	1.33	1.1







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Summary

- Sampling data confirms earlier finding that current use of the site is within acceptable USEPA risk guidelines
- Remedial Investigation Report will examine risks for other potential future site uses



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FUSRAP Questions

- By phone:
- 1-800-833-6390
- By e-mail:
- By writing:

fusrap@usace.army.mil

U.S. Army Corps of Engineers **FUSRAP** Information Center 1776 Niagara Street Buffalo, NY 14207

• Information is also available on the web at: http://www.lrb.usace.army.mil/fusrap



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Other Landfill Questions New York State Department of Environmental Conservation (716) 851-7220

New York State Department of Health (800) 458-1158 ext. 27550