

**US Army Corps
of Engineers
Buffalo District**



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**Formerly Utilized Sites
Remedial Action Program (FUSRAP)**

**Presentation of
Remedial Investigation Results**

Tonawanda Landfill and Mudflats Area
Tonawanda, New York

To: Representative Slaughter & CANiT
March 26, 2004

**Project Manager
Buffalo District
U.S. Army Corps of Engineers**



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Purpose of Meeting

- **Report**
results of the
Remedial
Investigation
- **Explain**
Corps'
conclusions
- **Discuss next
steps**



Tonawanda Landfill and Mudflats Area



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Conclusion

- Based on the Remedial Investigation and previous investigations, no FUSRAP remedial action is required by CERCLA for the Tonawanda Landfill and Mudflats Area



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Groundwater Sampling Results

- One out of ten wells sampled had uranium above Federal drinking water limits
- Groundwater is not a drinking water source
- A landfill cap will reduce potential for migration



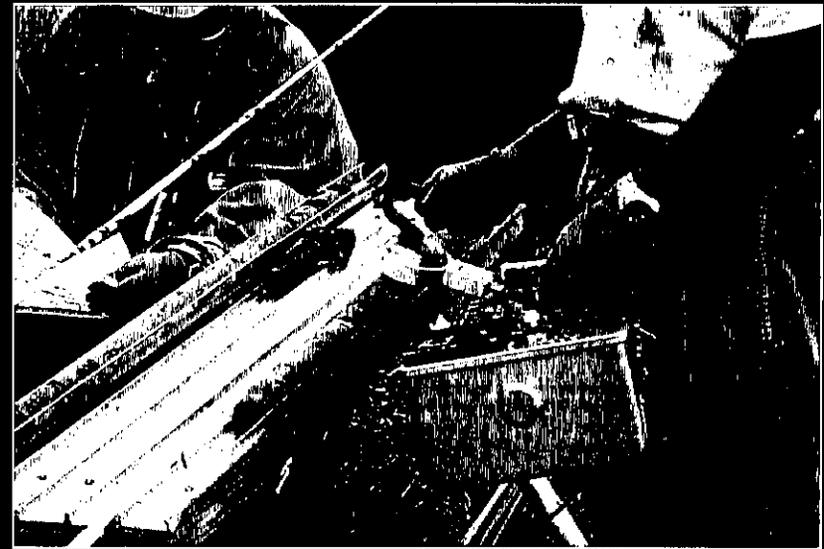
**Field Work –
Soil Sampling**



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Soil Sampling Results

- Small areas of soil with concentrations above background in the Landfill
- In the Mudflats, only two sample locations had results above background
- Site is below risk and dose guidelines

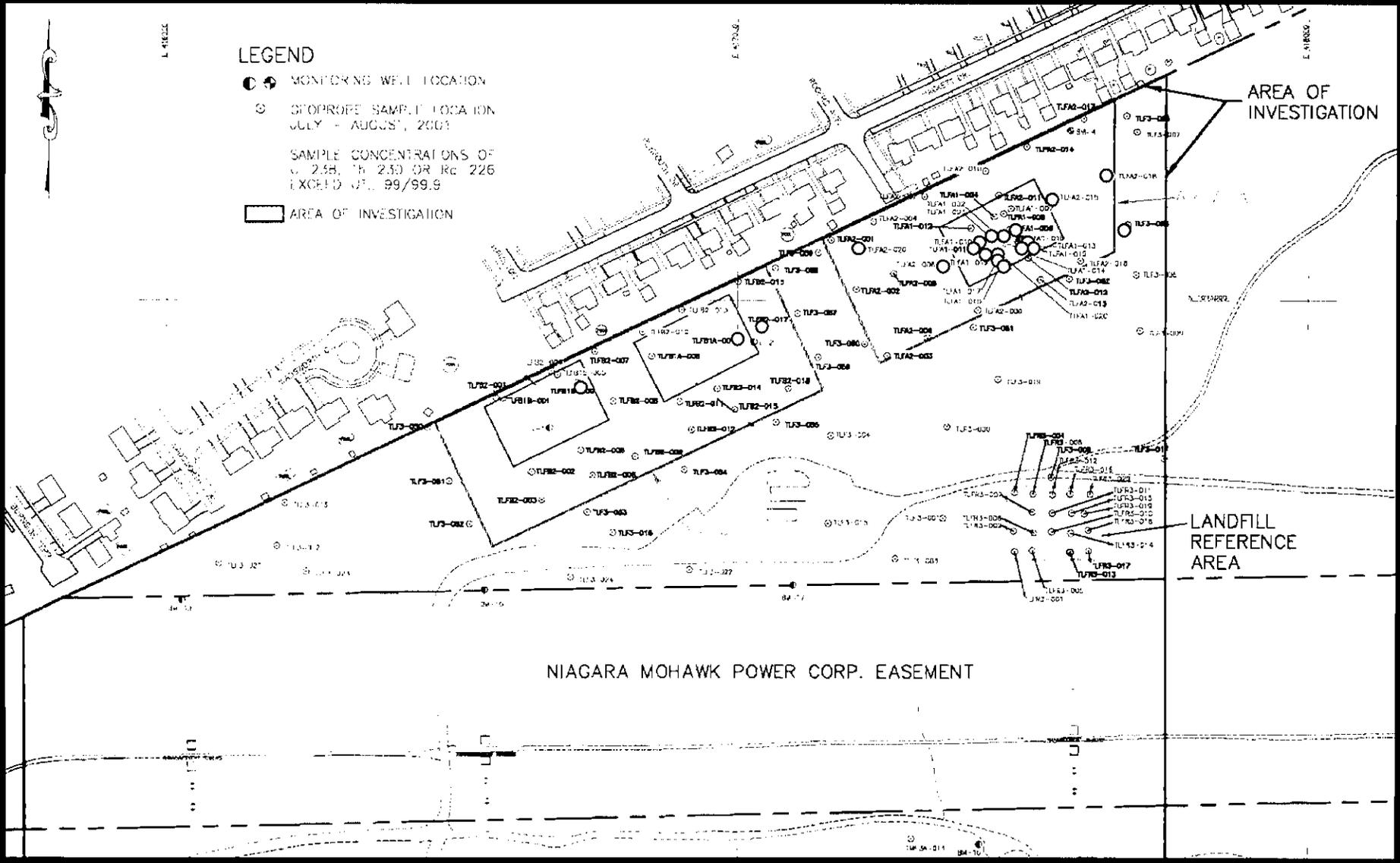


**Field Work –
Soil Sampling**



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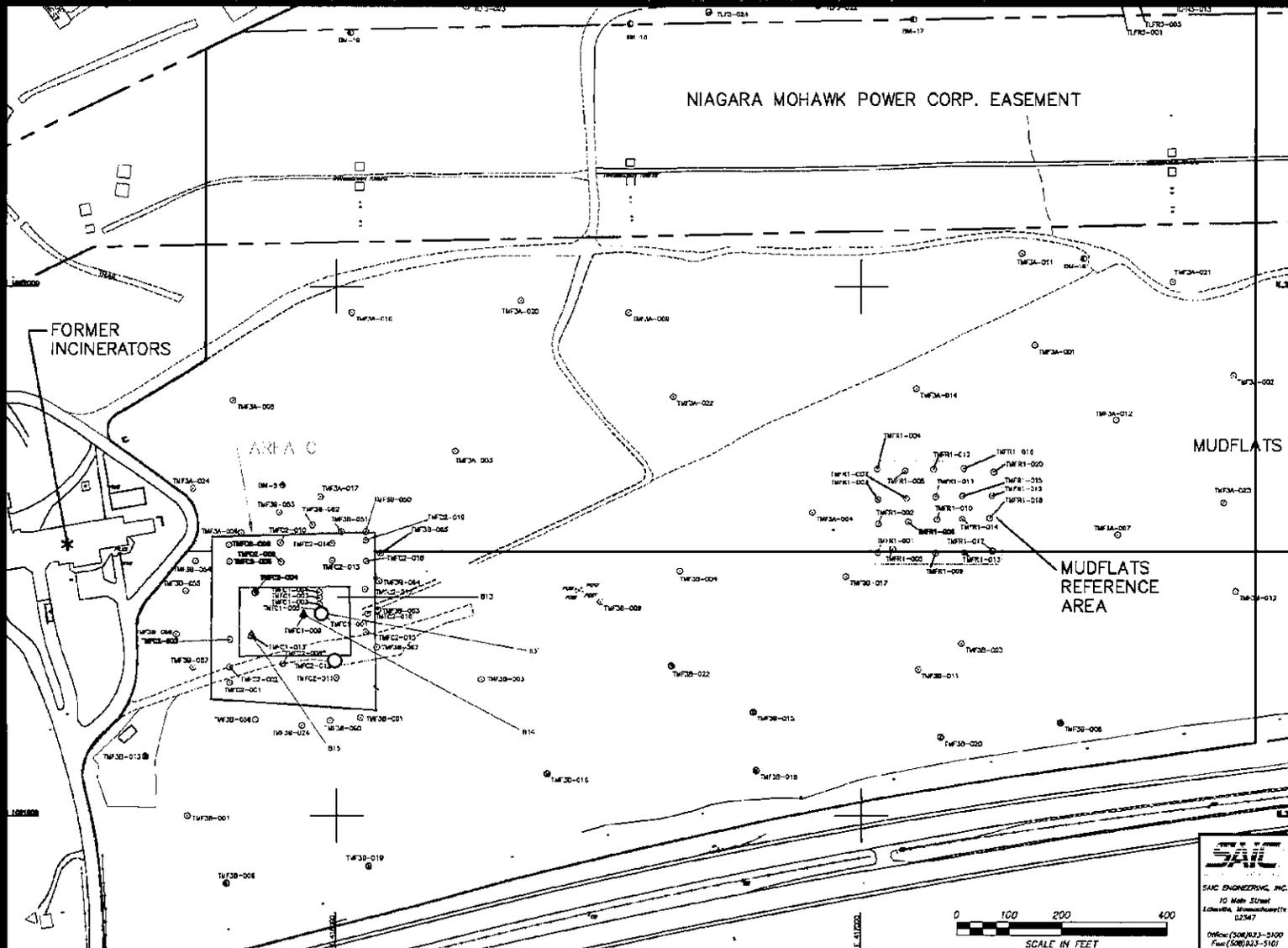
Landfill Investigation Results





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Mudflats Investigation Results





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Landfill Risk Assessment

[CERCLA Risk Range is 1 in One Million *to* 1 in Ten Thousand]

User	Lifetime Risk
Recreational - Current	1.3 in Ten Thousand
Recreational - After Cap	2.4 in One Billion



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Mudflats Area Risk Assessment

[CERCLA Risk Range is 1 in One Million to 1 in Ten Thousand]

User	Lifetime Risk
Recreational	3.0 in Ten Million
Industrial/Commercial	3.7 in One Million
Residential	7.9 in One Hundred Thousand



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Landfill and Mudflats Dose

User	Dose (mrem/ year)	Federal Limit (mrem/year)	State Guideline (mrem/year)
Landfill Recreational	6.0	25	10
Mudflats Recreational	0.013	25	10
Mudflats Industrial	0.79	25	10
Mudflats Residential	4.3	25	10



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Analysis

- Risk for current and likely future land uses in Landfill and Mudflats are within CERCLA risk range
- Doses for current and likely future land uses are below Federal limits and New York State guidelines
- No FUSRAP remedial action required by CERCLA for the Tonawanda Landfill and Mudflats Area



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Next Steps

- Respond to stakeholder comments on the Remedial Investigation Report
- Release Remedial Investigation Report to the general public
- Buffalo District will make recommendation to USACE Headquarters to remove site from FUSRAP