

STATE OF MISSOURI  
**DEPARTMENT OF NATURAL RESOURCES**

Pat Callahan, Governor • Stephen M. Mahieu, Director

DIVISION OF ENVIRONMENTAL QUALITY  
P.O. Box 176 Jefferson City, MO 65102-0176

March 10, 1998

Redacted - Privacy Act

#10 Jamestown Rd.  
Florissant, MO 63034

RE: Groundwater sampling results from sampling on November 13, 1997

Dear Redacted - Privacy Act:

I first want to apologize for not getting the results from the sampling sooner. I also want to thank you for letting MDNR sample your well as part of the St. Louis Airport Site (SLAPS) and Hazelwood Interim Storage Site (HISS) Baseline Groundwater Sampling. The results are being sent to the U.S. Army Corps of Engineers (took over the project from the Department of Energy) along with you.

The analysis of your water included radionuclides, metals, nitrate, fluoride, bacteria, pesticides, semi-volatile organic compounds, and volatile organic compounds. The results have been attached to this letter. There is nothing significant to report at this time found in the analysis of your water. The results have been compared to regulated levels for water when available. The regulated levels are known as Maximum Contaminant Levels (MCL).

If you have any questions or comments, please contact Scott Honig at (573) 751-3087. Thank you for the opportunity to sample your well. If you want to receive information on this project in the future, let us know so that your name can be added to the mailing list.

Sincerely,

HAZARDOUS WASTE PROGRAM

*Larry L. Erickson*  
Larry Erickson  
Unit Chief, Department of Energy  
Federal Facilities Section, HWP

LE:shg

Enclosures



**Missouri Department of Natural Resources**  
**Groundwater Analysis Report**  
**Formerly Utilized Site Remediation Action Program**

Sample Location/Description: Redacted - Privacy Act #10 Jamestown Rd. Florissant, MO 63034 (Residential Well)

Laboratory Identification Number: #97-6052 (Maxim lab ID 9711043-01)

Date/Time Sampled: 11/13/97 11:55 AM

Date/Time Delivered: 11/13/97 1:10 PM

Parameter	Units	Test Results	MCL <sup>1</sup>
Gross Alpha	pCi/L	NA <sup>2</sup>	
Gross Beta	pCi/L	NA	
Total Uranium	pCi/L	1.3	30
Radium 226	pCi/L	0.4	5
Radium 228	pCi/L	1.9	
Thorium 230	pCi/L	0.0	
Thorium 232	pCi/L	0.0	
Nitrate as N	mg N/L	1.8	10
Cyanide	mg CN/L	NA	0.2
Chloride	mg Cl/L	NA	
Sulfate	mg SO4/L	NA	
Fluoride	mg F/L	0.35	4
Arsenic*	mg As/L	0.004	0.05
Barium	mg Ba/L	0.243	2
Cadmium*	mg Cd/L	0.002	0.005

<sup>1</sup>Maximum Contaminant Level - regulated levels for specific contaminants with respect to water.

<sup>2</sup>Not Analyzed

\* - The analyte was not detected; the detection limit is reported.

<sup>a</sup> - Reported value is less than the contract required detection limit but above the instrument detection limit.

<sup>e</sup> - The result is reported as an estimated value.

Chromium	mg Cr/L	0.0107	0.1
Copper	mg Cu/L	NA	< 1.3
Lead <sup>A</sup>	mg Pb/L	0.002	< 0.015
Manganese	mg Mn/L	NA	
Mercury*	mg Hg/L	0.0001	0.002
Selenium*	mg Se/L	0.005	0.05
Silver*	mg Ag/L	0.001	
E. Coli	cfu <sup>3</sup> /100 ml	< 1	
Fecal Coliform	cfu/100 ml	8	
Total Coliform	cfu/100 ml	9	
Aroclor 1016	mg/L	< 0.001	0.002
Aroclor 1221	mg/L	< 0.001	0.002
Aroclor 1232	mg/L	< 0.001	0.002
Aroclor 1242	mg/L	< 0.001	0.002
Aroclor 1248	mg/L	< 0.001	0.002
Aroclor 1254	mg/L	< 0.001	0.002
Aroclor 1260	mg/L	< 0.001	0.002
Pyridine*	µg/L	10	
N-Nitrosodimethylamine*	µg/L	10	
Aniline*	µg/L	10	
Phenol*	µg/L	10	
2-Chlorophenol*	µg/L	10	
bis(2-Chloroethyl) ether*	µg/L	10	
1,3- Dichlorobenzene*	µg/L	10	
1,4-Dichlorobenzene*	µg/L	10	-
1,2-Dichlorobenzene*	µg/L	10	
Benzyl alcohol*	µg/L	10	

\*Colony forming units

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2-Methylphenol*	µg/L	10	
2,2'-oxybis(1-Chloropropane)*	µg/L	2	
Hexachloroethane*	µg/L	10	
4-Methylphenol*	µg/L	10	
N-Nitroso-di-n-propylamine*	µg/L	10	
Nitrobenzene*	µg/L	10	
Isophorone*	µg/L	10	
2-Nitrophenol*	µg/L	10	
2,4 - Dimethyphenol*	µg/L	10	
bis(2-Chloroethoxy)methane*	µg/L	10	
2,3-Dichlorophenol*	µg/L	10	
1,2,4-Trichlorobenzene*	µg/L	10	
Benzoic Acid*	µg/L	10	
Naphthalene*	µg/L	10	
4-Chlorozniline*	µg/L	10	
Hexachlorobutadiene*	µg/L	10	
4-Chloro-3methylphenol*	µg/L	10	
2-Methylnaphthalene*	µg/L	10	
hexachlorocyclopentadiene*	µg/L	10	50
2,4,6-Trichlorophenol*	µg/L	10	
2,4,5-Trichlorophenol*	µg/L	25	
2-Choronaphthalene*	µg/L	10	
2-Nitroaniline*	µg/L	25	
Dimethylphthalate*	µg/L	10	
Acenaphthylene*	µg/L	10	
2,6-Dinitrotoluene*	µg/L	10	
3-Nitroaniline*	µg/L	25	
Acenaphthene*	µg/L	10	
2,4-Dinitrophenol*	µg/L	25	
Dibenzofuran*	µg/L	10	
4-Nitrophenol*	µg/L	25	

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2,4-dinitrotoluene*	$\mu\text{g/L}$	1	
Diethylphthalate*	$\mu\text{g/L}$	10	
Fluorene*	$\mu\text{g/L}$	10	
4-Chlorophenyl-phenylether*	$\mu\text{g/L}$	10	
4-Nitroaniline*	$\mu\text{g/L}$	25	
4,6-Dinitro-2-methylphenol*	$\mu\text{g/L}$	25	
N-Nitrosodiphenylamine*	$\mu\text{g/L}$	10	
1,2-diphenylhydrazine*	$\mu\text{g/L}$	10	
4-Bromophenyl-phenylether*	$\mu\text{g/L}$	10	
Hexachlorobenzene*	$\mu\text{g/L}$	1	1
Pentachlorophenol*	$\mu\text{g/L}$	25	
Benzidine*	$\mu\text{g/L}$	10	
Phenanthrene*	$\mu\text{g/L}$	10	
Anthracene*	$\mu\text{g/L}$	10	
Carbazole*	$\mu\text{g/L}$	5	
Di-n-butylphthalate*	$\mu\text{g/L}$	10	
Fluoranthene*	$\mu\text{g/L}$	10	
Pyrene*	$\mu\text{g/L}$	10	
Butylbenzylphthalate*	$\mu\text{g/L}$	10	
Benzo(a)anthracene*	$\mu\text{g/L}$	10	
3,3'-Dichlorobenzidine*	$\mu\text{g/L}$	10	
Chrysene*	$\mu\text{g/L}$	10	
bis(2-Ethylhexyl)phthalate*	$\mu\text{g/L}$	10	
Di-n-octylphthalate*	$\mu\text{g/L}$	10	
Benzo(b)fluoranthene*	$\mu\text{g/L}$	10	
Benzo(k)fluoranthene*	$\mu\text{g/L}$	10	
Benzo(a)pyrene*	$\mu\text{g/L}$	10	0.2
Indeno(1,2,3-cd)pyrene*	$\mu\text{g/L}$	10	
Dibenzo(a,h)anthracene*	$\mu\text{g/L}$		
Benzo(g,h,i)perylene*	$\mu\text{g/L}$		
2-Fluorophenol	$\mu\text{g/L}$	10	

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Phenol-d5	$\mu\text{g/L}$	24	
2-Chlorophenol-d4	$\mu\text{g/L}$	54	
1,2-Dichlorobenzene-d4	$\mu\text{g/L}$	41	
Nitrobenzene-d5	$\mu\text{g/L}$	40	
2-Fluorobiphenyl	$\mu\text{g/L}$	39	
2,4,6-Tribromophenol	$\mu\text{g/L}$	58	
Terphenyl-d14	$\mu\text{g/L}$	33	
Vinyl Chloride*	$\mu\text{g/L}$	5	2
Chloromethane*	$\mu\text{g/L}$	5	
Bromomethane*	$\mu\text{g/L}$	10	
Chloroethane*	$\mu\text{g/L}$	5	
Trichlorofluoromethane*	$\mu\text{g/L}$	5	
1,1-Dichloroethene*	$\mu\text{g/L}$	5	7
Carbon Disulfide*	$\mu\text{g/L}$	5	
Acetone*	$\mu\text{g/L}$	10	
Methylene Chloride*	$\mu\text{g/L}$	3	5
1,1-Dichloroethane*	$\mu\text{g/L}$	5	5
Vinyl acetate*	$\mu\text{g/L}$	5	
1,2-Dichloroethene (total)*	$\mu\text{g/L}$	5	7
2-Butanone*	$\mu\text{g/L}$	5	
Chloroform*	$\mu\text{g/L}$	5	
1,1,1 - Trichloroethane*	$\mu\text{g/L}$	5	200
Carbon Tetrachloride*	$\mu\text{g/L}$	5	5
Benzene*	$\mu\text{g/L}$	10	5
1,2-Dichloroethane*	$\mu\text{g/L}$	3	5
Trichloroethene*	$\mu\text{g/L}$	5	5
1,2-Dichloropropane*	$\mu\text{g/L}$	5	5
Bromodichloromethane*	$\mu\text{g/L}$	5	
cis-1,3-Dichloropropene*	$\mu\text{g/L}$	5	
4-methyl-2-pentanone*	$\mu\text{g/L}$	5	
Toluene*	$\mu\text{g/L}$	5	1,000

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trans-1,3-Dichloropropene*	$\mu\text{g/L}$	5	
1,1,2-Trichloroethane*	$\mu\text{g/L}$	5	5
Tetrachloroethene*	$\mu\text{g/L}$	5	5
2-Hexanone*	$\mu\text{g/L}$	5	
Dibromochloromethane*	$\mu\text{g/L}$	5	
Chlorobenzene*	$\mu\text{g/L}$	5	100
Ethylbenzene*	$\mu\text{g/L}$	5	700
Xylene*	$\mu\text{g/L}$	5	10,000
Styrene*	$\mu\text{g/L}$	5	100
Bromoform*	$\mu\text{g/L}$	5	
1,1,2,2-Tetrachloroethane*	$\mu\text{g/L}$	5	
Turbidity	NTU	0.25	0.5

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TOTAL P.08

P. 8

**Cataloging Form**

{Technical/Project Managers fill in C through G, K through Q. RM completes other fields}

A. Document ID Number: Assigned by database **Q11**

B. Further Information Required?:

C. Operable Unit (Choose One):

- |                     |                                     |
|---------------------|-------------------------------------|
| USACE               | <input type="checkbox"/>            |
| St. Louis Sites     | <input checked="" type="checkbox"/> |
| Downtown            | <input type="checkbox"/>            |
| North County        | <input type="checkbox"/>            |
| Madison Sites       | <input type="checkbox"/>            |
| Inaccessible Areas  | <input type="checkbox"/>            |
| PRP                 | <input type="checkbox"/>            |
| Oversight Committee | <input type="checkbox"/>            |

D. Site (Optional):

- |              |                          |
|--------------|--------------------------|
| SLDS VPs     | <input type="checkbox"/> |
| Mallinckrodt | <input type="checkbox"/> |
| SLAPS        | <input type="checkbox"/> |
| SLAPS VPs    | <input type="checkbox"/> |
| CWC          | <input type="checkbox"/> |
| HISS         | <input type="checkbox"/> |
| Madison      | <input type="checkbox"/> |

E. Area (Optional): \_\_\_\_\_

F. Primary Document Type (Choose One):

- |                         |                          |                                    |                          |
|-------------------------|--------------------------|------------------------------------|--------------------------|
| Site Management Records | <input type="checkbox"/> | Remedial Action                    | <input type="checkbox"/> |
| Removal Response        | <input type="checkbox"/> | Public Affairs/Community Relations | <input type="checkbox"/> |
| Remedial Investigation  | <input type="checkbox"/> | Congressional Relations            | <input type="checkbox"/> |
| Feasibility Study       | <input type="checkbox"/> | Freedom of Information Act         | <input type="checkbox"/> |
| Record of Decision      | <input type="checkbox"/> | Real Estate                        | <input type="checkbox"/> |
| Remedial Design         | <input type="checkbox"/> | Project Management                 | <input type="checkbox"/> |

G. Secondary Document Type (see back of form): \_\_\_\_\_

H. Bechtel Number: \_\_\_\_\_

I. SAIC Number: \_\_\_\_\_

J. MARKS Number (Choose One): FN: 1110-1-8100e

FN: 1110-1-8100f

FN: 1110-1-8100g

K. Subject/Title: *MDNR Groundwater Sampling Results from Private Well at 10 Jametown Road on 11/13/97*

L. Author: Larry Erickson

M. Author's Company: MDNR

N. Recipient(s): **Redacted - Privacy Act**

O. Recipient(s) Company: Resident

P. Version (Choose One): Draft

Final

Q. Date: 3/10/98

R. Include in the ARF?

S. Include in the AR?

T. Filed as Confidential/Privileged?

U. Document Format (Choose one):

- |            |                                     |              |                          |                       |                          |
|------------|-------------------------------------|--------------|--------------------------|-----------------------|--------------------------|
| Paper      | <input checked="" type="checkbox"/> | Photographic | <input type="checkbox"/> | Cartographic/Oversize | <input type="checkbox"/> |
| Electronic | <input type="checkbox"/>            | Audio-visual | <input type="checkbox"/> | Microform             | <input type="checkbox"/> |

V. Filed in AR Volume Number: \_\_\_\_\_

W. Physical Location (Choose One):

- |                      |                                     |                      |                          |                                 |
|----------------------|-------------------------------------|----------------------|--------------------------|---------------------------------|
| Central Files        | <input checked="" type="checkbox"/> | Microfilm Vendor     | <input type="checkbox"/> | In ARF <input type="checkbox"/> |
| Records Holding Area | <input type="checkbox"/>            | Department of Energy | <input type="checkbox"/> | In AR <input type="checkbox"/>  |

X. Associated with Document(s): \_\_\_\_\_