



**SITEX
Environmental, Inc.**

11905 Borman Drive
St. Louis, MO 63146
(314) 569-1119

August 7, 1990

Project No. 7179

CONFIDENTIAL-ATTORNEY WORK PROJECT

Mr. Kurt A. Hentz
Weir, Hockensmith & Sherby
12801 Flushing Meadow Drive
P.O. Box 31158
St. Louis, MO 63131



RE: City of Sullivan

Dear Kurt:

Enclosed are the laboratory results of well water and landfill leachate samples collected on the afternoon of July 10, 1990. Eight water well samples and three leachate samples were collected. All samples were analyzed for volatile organic compounds by gas chromatography and the three leachate samples were also analyzed for the presence of the eight RCRA regulated heavy metals.

Five of the wells contained measurable concentrations of one or more volatile organics. Three wells (Nos. 2, 5 and Treatment Plant) contained small quantities of acetone. This solvent was measured at concentrations ranging from 20 to 28 micrograms per liter ($\mu\text{g}/\text{l}$). USEPA states that there is no published limit for drinking water but an estimated lifetime concentration in drinking water which "should not result in adverse non-cancer health effects is 700 $\mu\text{g}/\text{l}$ ". The concentrations reported were at or just above the detection limits for the instrumentation.

Methylene chloride was measured in two wells, Well 7 at 42 $\mu\text{g}/\text{l}$ and Treatment Plant Well at 33 $\mu\text{g}/\text{l}$. This contaminant has an EPA Safe Drinking Water Maximum Level of 5 $\mu\text{g}/\text{l}$.

Toluene (6 $\mu\text{g}/\text{l}$) and Xylene (25 $\mu\text{g}/\text{l}$) were found in Well 8. These levels are insignificant when compared to the proposed safe drinking limits of 2,000 $\mu\text{g}/\text{l}$ and 10,000 $\mu\text{g}/\text{l}$ respectively.

The Treatment Plant Well sample had 36 $\mu\text{g}/\text{l}$ of 2 Butanone. There are currently no standards for this material in drinking water but a draft concentration of 200 $\mu\text{g}/\text{l}$ has been suggested for a lifetime use of a drinking supply.

As would be expected, the three leachate samples from the landfill contained varying concentrations of numerous volatile organic compounds and heavy metals. Overall evaluation of these one-time single grab samples would indicate that the leachate from the west side of the landfill is the least "potent", followed by the other

Mr. Kurt Hentz
Weir, Hockensmith & Sherby
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two, north side and south side being stronger and somewhat similar. It should be emphasized that these are single samples collected on a given day.

It is important to note that significant concentrations of each contaminant found in the water well samples were present in at least one of the leachate samples. This does not mean that the landfill is the source of the water well contamination, rather that these contaminants are or were materials used and disposed of by industry in the area.

The heavy metals analysis of the leachate showed concentrations in excess of limits allowed in discharges to underground waters as follows:

<u>METAL</u>	<u>CONCENTRATION, UG/L</u>			
	<u>LIMIT</u>	<u>NORTH</u>	<u>SOUTH</u>	<u>WEST</u>
Barium	1,000	-	40,000	18,000
Cadmium	10	16	11	-
Chromium	50	480	490	240
Lead	50	210	190	180
Mercury	0.05	7.3	1.2	1.2
Selenium	10	-	-	60
Silver	50	180	50	-

This initial evaluation of the leachate discharges from the landfill will require additional study as proposed by USGS. It does, however, collaborate the information obtained by Detective Sam Elia relative to the types and locations of materials placed in the landfill by industry in Sullivan.

Sincerely,

SITEX Environmental, Inc.



E. Edgerley, Ph.D., P.E.
President

EE:mw

Enclosure

ENVIRONMENTAL ANALYTICAL CHEMISTRY

SITEX ENVIRONMENTAL, INC.
11905 BORMAN DRIVE
ST. LOUIS, MO 63146

2345 Millpark Drive
Maryland Heights, MO 63043
(314) 427-0550

ATTN: PAUL SPELL
PO #7191
INVOICE: 9423

VOLATILE ORGANIC ANALYSIS

METHOD EPA 601/602

SAMPLE ID: WELL 3

<u>CAS NUMBER</u>		<u>DETECTION LIMIT</u>	<u>RESULTS</u>
74-87-3	Chloromethane	10 µg/l	ND µg/l
74-83-9	Bromomethane	10	ND
75-01-4	Vinyl Chloride	10	ND
75-00-3	Chloroethane	10	ND
75-09-2	Methylene Chloride	20	ND
75-15-0	Carbon Disulfide	5	ND
75-35-4	1,1-Dichloroethene	5	ND
75-34-3	1,1-Dichloroethane	5	ND
	1,2-Dichloroethene (Total)	5	ND
67-66-3	Chloroform	20	ND
107-06-2	1,2-Dichloroethane	5	ND
78-93-3	2-Butanone	15	ND
71-55-6	1,1,1-Trichloroethane	5	ND
56-23-5	Carbon Tetrachloride	5	ND
108-05-4	Vinyl Acetate	50	ND
75-27-4	Bromodichloromethane	5	ND
78-87-5	1,2-Dichloropropane	5	ND
10061-01-5	cis-1,3-Dichloropropene	5	ND
79-01-6	Trichloroethene	5	ND
124-48-1	Dibromochloromethane	5	ND
79-00-5	1,1,2-Trichloroethane	5	ND
71-43-2	Benzene	5	ND
10061-02-6	trans-1,3-Dichloropropene	5	ND
75-25-2	Bromoform	5	ND
108-10-1	4-Methyl-2-Pentanone	10	ND
591-78-6	2-Hexanone	10	ND
127-18-4	Tetrachloroethene	5	ND
79-34-5	1,1,2,2-Tetrachloroethane	5	ND
108-88-3	Toluene	5	ND
108-90-7	Chlorobenzene	5	ND
100-41-4	Ethylbenzene	5	ND
100-42-5	Styrene	5	ND
	Xylene (Total)	5	ND
67-64-1	Acetone	20	ND

ND = NOT DETECTED

JULY 20, 1990



WAYNE L. COOPER
LABORATORY DIRECTOR

IRONMETRICS

2345 Millpark Drive
Maryland Heights, MO 63043
(314) 427-0550

SITEX ENVIRONMENTAL, INC.
11905 BORMAN DRIVE
ST. LOUIS, MO 63146

ATTN: PAUL SPELL
PO #7191
INVOICE: 9423

ANALYSIS RESULTS

SAMPLE ID: 1B-NS

TEST PERFORMED

METHOD OF ANALYSIS

RESULTS

RCRA METALS ANALYSIS

SW-846 6010

TOTAL

ARSENIC

0.003 ppm

BARIUM

0.5

CADMIUM

0.016

CHROMIUM

0.48

LEAD

0.21

MERCURY

0.0073

SELENIUM

<0.002

SILVER

0.18

JULY 20, 1990



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LABORATORY DIRECTOR

ENVIRONMENTAL METRICS

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ST. LOUIS, MO 63146


ATTN: PAUL SPELL
PO #7191
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ANALYSIS RESULTS

SAMPLE ID: 2B-WS

<u>TEST PERFORMED</u>	<u>METHOD OF ANALYSIS</u>	<u>RESULTS</u>
RCRA METALS ANALYSIS	SW-846 6010	TOTAL
ARSENIC		0.003 ppm
BARIIUM		18
CADMIUM		0.008
CHROMIUM		0.24
LEAD		0.18
MERCURY		0.0012
SELENIUM		<0.002
SILVER		0.06

JULY 20, 1990



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ST. LOUIS, MO 63146

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PO #7191
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ANALYSIS RESULTS

SAMPLE ID: 3B-SS

<u>TEST PERFORMED</u>	<u>METHOD OF ANALYSIS</u>	<u>RESULTS</u>
RCRA METALS ANALYSIS	SW-846 6010	TOTAL
ARSENIC		0.005 ppm
BARIUM		40
CADMIUM		0.011
CHROMIUM		0.49
LEAD		0.19
MERCURY		0.0012
SELENIUM		<0.002
SILVER		0.05

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ATTN: PAUL SPELL
PO #7191
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VOLATILE ORGANIC ANALYSIS

METHOD SW-846 8240

SAMPLE ID: METHOD BLANK VBLK198B

<u>CAS NUMBER</u>		<u>DETECTION LIMIT</u>	<u>RESULTS</u>
74-87-3	Chloromethane	10 µg/l	ND µg/l
74-83-9	Bromomethane	10	ND
75-01-4	Vinyl Chloride	10	ND
75-00-3	Chloroethane	10	ND
75-09-2	Methylene Chloride	20	ND
75-15-0	Carbon Disulfide	5	ND
75-35-4	1,1-Dichloroethene	5	ND
75-34-3	1,1-Dichloroethane	5	ND
	1,2-Dichloroethene (Total)	5	ND
67-66-3	Chloroform	20	ND
107-06-2	1,2-Dichloroethane	5	ND
78-93-3	2-Butanone	15	ND
71-55-6	1,1,1-Trichloroethane	5	ND
56-23-5	Carbon Tetrachloride	5	ND
108-05-4	Vinyl Acetate	50	ND
75-27-4	Bromodichloromethane	5	ND
78-87-5	1,2-Dichloropropane	5	ND
10061-01-5	cis-1,3-Dichloropropene	5	ND
79-01-6	Trichloroethene	5	ND
124-48-1	Dibromochloromethane	5	ND
79-00-5	1,1,2-Trichloroethane	5	ND
71-43-2	Benzene	5	ND
10061-02-6	trans-1,3-Dichloropropene	5	ND
75-25-2	Bromoform	5	ND
108-10-1	4-Methyl-2-Pentanone	10	ND
591-78-6	2-Hexanone	10	ND
127-18-4	Tetrachloroethene	5	ND
79-34-5	1,1,2,2-Tetrachloroethane	5	ND
108-88-3	Toluene	5	ND
108-90-7	Chlorobenzene	5	ND
100-41-4	Ethylbenzene	5	ND
100-42-5	Styrene	5	ND
	Xylene (Total)	5	ND
67-64-1	Acetone	20	ND

ND = NOT DETECTED

JULY 20, 1990


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ATTN: PAUL SPELL
 PO #7191
 INVOICE: 9423

VOLATILE ORGANIC ANALYSIS

METHOD SW-846 8240

SAMPLE ID: METHOD BLANK VBLK198A

<u>CAS NUMBER</u>		<u>DETECTION LIMIT</u>	<u>RESULTS</u>
74-87-3	Chloromethane	10 µg/l	ND µg/l
74-83-9	Bromomethane	10	ND
75-01-4	Vinyl Chloride	10	ND
75-00-3	Chloroethane	10	ND
75-09-2	Methylene Chloride	20	ND
75-15-0	Carbon Disulfide	5	ND
75-35-4	1,1-Dichloroethene	5	ND
75-34-3	1,1-Dichloroethane	5	ND
	1,2-Dichloroethene (Total)	5	ND
67-66-3	Chloroform	20	ND
107-06-2	1,2-Dichloroethane	5	ND
78-93-3	2-Butanone	15	ND
71-55-6	1,1,1-Trichloroethane	5	ND
56-23-5	Carbon Tetrachloride	5	ND
108-05-4	Vinyl Acetate	50	ND
75-27-4	Bromodichloromethane	5	ND
78-87-5	1,2-Dichloropropane	5	ND
10061-01-5	cis-1,3-Dichloropropene	5	ND
79-01-6	Trichloroethene	5	ND
124-48-1	Dibromochloromethane	5	ND
79-00-5	1,1,2-Trichloroethane	5	ND
71-43-2	Benzene	5	ND
10061-02-6	trans-1,3-Dichloropropene	5	ND
75-25-2	Bromoform	5	ND
108-10-1	4-Methyl-2-Pentanone	10	ND
591-78-6	2-Hexanone	10	ND
127-18-4	Tetrachloroethene	5	ND
79-34-5	1,1,2,2-Tetrachloroethane	5	ND
108-88-3	Toluene	5	ND
108-90-7	Chlorobenzene	5	ND
100-41-4	Ethylbenzene	5	ND
100-42-5	Styrene	5	ND
	Xylene (Total)	5	ND
67-64-1	Acetone	20	ND

ND = NOT DETECTED

JULY 20, 1990


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VOLATILE ORGANIC ANALYSIS

METHOD SW-846 8240

SAMPLE ID: METHOD BLANK VBLK199B

<u>CAS NUMBER</u>		<u>DETECTION LIMIT</u>	<u>RESULTS</u>
74-87-3	Chloromethane	10 µg/l	ND µg/l
74-83-9	Bromomethane	10	ND
75-01-4	Vinyl Chloride	10	ND
75-00-3	Chloroethane	10	ND
75-09-2	Methylene Chloride	20	88
75-15-0	Carbon Disulfide	5	ND
75-35-4	1,1-Dichloroethene	5	ND
75-34-3	1,1-Dichloroethane	5	ND
	1,2-Dichloroethene (Total)	5	ND
67-66-3	Chloroform	20	ND
107-06-2	1,2-Dichloroethane	5	ND
78-93-3	2-Butanone	15	ND
71-55-6	1,1,1-Trichloroethane	5	ND
56-23-5	Carbon Tetrachloride	5	ND
108-05-4	Vinyl Acetate	50	ND
75-27-4	Bromodichloromethane	5	ND
78-87-5	1,2-Dichloropropane	5	ND
10061-01-5	cis-1,3-Dichloropropene	5	ND
79-01-6	Trichloroethene	5	ND
124-48-1	Dibromochloromethane	5	ND
79-00-5	1,1,2-Trichloroethane	5	ND
71-43-2	Benzene	5	ND
10061-02-6	trans-1,3-Dichloropropene	5	ND
75-25-2	Bromoform	5	ND
108-10-1	4-Methyl-2-Pentanone	10	ND
591-78-6	2-Hexanone	10	ND
127-18-4	Tetrachloroethene	5	ND
79-34-5	1,1,2,2-Tetrachloroethane	5	ND
108-88-3	Toluene	5	ND
108-90-7	Chlorobenzene	5	ND
100-41-4	Ethylbenzene	5	ND
100-42-5	Styrene	5	ND
	Xylene (Total)	5	ND
67-64-1	Acetone	20	26

ND = NOT DETECTED

JULY 20, 1990


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 LABORATORY DIRECTOR

ENVIRONMENTAL METRICS

SITEX ENVIRONMENTAL, INC.
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ATTN: PAUL SPELL
PO #7191
INVOICE: 9423

VOLATILE ORGANIC ANALYSIS


METHOD SW-846 8240

SAMPLE ID: LF1-NS

<u>CAS NUMBER</u>		<u>DETECTION LIMIT</u>	<u>RESULTS</u>
74-87-3	Chloromethane	10 µg/l	31 µg/l
74-83-9	Bromomethane	10	ND
75-01-4	Vinyl Chloride	10	ND
75-00-3	Chloroethane	10	170
75-09-2	Methylene Chloride	20	>61,000
75-15-0	Carbon Disulfide	5	10
75-35-4	1,1-Dichloroethene	5	6
75-34-3	1,1-Dichloroethane	5	ND
	1,2-Dichloroethene (Total)	5	ND
67-66-3	Chloroform	20	ND
107-06-2	1,2-Dichloroethane	5	ND
78-93-3	2-Butanone	15	ND
71-55-6	1,1,1-Trichloroethane	5	120
56-23-5	Carbon Tetrachloride	5	ND
108-05-4	Vinyl Acetate	50	99
75-27-4	Bromodichloromethane	5	ND
78-87-5	1,2-Dichloropropane	5	5
10061-01-5	cis-1,3-Dichloropropene	5	ND
79-01-6	Trichloroethene	5	9
124-48-1	Dibromochloromethane	5	ND
79-00-5	1,1,2-Trichloroethane	5	ND
71-43-2	Benzene	5	44
10061-02-6	trans-1,3-Dichloropropene	5	ND
75-25-2	Bromoform	5	ND
108-10-1	4-Methyl-2-Pentanone	10	ND
591-78-6	2-Hexanone	10	73
127-18-4	Tetrachloroethene	5	22
79-34-5	1,1,2,2-Tetrachloroethane	5	ND
108-88-3	Toluene	5	900
108-90-7	Chlorobenzene	5	ND
100-41-4	Ethylbenzene	5	53
100-42-5	Styrene	5	17
	Xylene (Total)	5	144
67-64-1	Acetone	20	ND

ND = NOT DETECTED

JULY 20, 1990


WAYNE L. COOPER
LABORATORY DIRECTOR

ENVIRONMENTAL METRICS

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(314) 427-0550

ATTN: PAUL SPELL
PO #7191
INVOICE: 9423

VOLATILE ORGANIC ANALYSIS

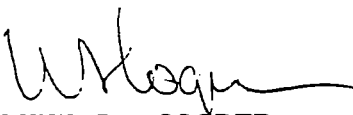
METHOD SW-846 8240

SAMPLE ID: LF2-WS

<u>CAS NUMBER</u>		<u>DETECTION LIMIT</u>	<u>RESULTS</u>
74-87-3	Chloromethane	10 µg/l	ND µg/l
74-83-9	Bromomethane	10	ND
75-01-4	Vinyl Chloride	10	ND
75-00-3	Chloroethane	10	ND
75-09-2	Methylene Chloride	20	29
75-15-0	Carbon Disulfide	5	ND
75-35-4	1,1-Dichloroethene	5	ND
75-34-3	1,1-Dichloroethane	5	ND
	1,2-Dichloroethene (Total)	5	ND
67-66-3	Chloroform	20	ND
107-06-2	1,2-Dichloroethane	5	ND
78-93-3	2-Butanone	15	ND
71-55-6	1,1,1-Trichloroethane	5	ND
56-23-5	Carbon Tetrachloride	5	ND
108-05-4	Vinyl Acetate	50	ND
75-27-4	Bromodichloromethane	5	ND
78-87-5	1,2-Dichloropropane	5	ND
10061-01-5	cis-1,3-Dichloropropene	5	ND
79-01-6	Trichloroethene	5	ND
124-48-1	Dibromochloromethane	5	ND
79-00-5	1,1,2-Trichloroethane	5	ND
71-43-2	Benzene	5	ND
10061-02-6	trans-1,3-Dichloropropene	5	ND
75-25-2	Bromoform	5	ND
108-10-1	4-Methyl-2-Pentanone	10	ND
591-78-6	2-Hexanone	10	ND
127-18-4	Tetrachloroethene	5	ND
79-34-5	1,1,2,2-Tetrachloroethane	5	ND
108-88-3	Toluene	5	ND
108-90-7	Chlorobenzene	5	ND
100-41-4	Ethylbenzene	5	ND
100-42-5	Styrene	5	ND
	Xylene (Total)	5	18
67-64-1	Acetone	20	ND

ND = NOT DETECTED

JULY 20, 1990


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ENVIRONMENTAL METRICS

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ATTN: PAUL SPELL
PO #7191
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VOLATILE ORGANIC ANALYSIS

METHOD SW-846 8240

SAMPLE ID: LF3-SS

<u>CAS NUMBER</u>		<u>DETECTION LIMIT</u>	<u>RESULTS</u>
74-87-3	Chloromethane	10 µg/l	13 µg/l
74-83-9	Bromomethane	10	ND
75-01-4	Vinyl Chloride	10	ND
75-00-3	Chloroethane	10	ND
75-09-2	Methylene Chloride	20	>41,000
75-15-0	Carbon Disulfide	5	ND
75-35-4	1,1-Dichloroethene	5	6
75-34-3	1,1-Dichloroethane	5	ND
	1,2-Dichloroethene (Total)	5	1,300
67-66-3	Chloroform	20	ND
107-06-2	1,2-Dichloroethane	5	ND
78-93-3	2-Butanone	15	3,100
71-55-6	1,1,1-Trichloroethane	5	ND
56-23-5	Carbon Tetrachloride	5	ND
108-05-4	Vinyl Acetate	50	ND
75-27-4	Bromodichloromethane	5	ND
78-87-5	1,2-Dichloropropane	5	9
10061-01-5	cis-1,3-Dichloropropene	5	ND
79-01-6	Trichloroethene	5	260
124-48-1	Dibromochloromethane	5	ND
79-00-5	1,1,2-Trichloroethane	5	ND
71-43-2	Benzene	5	23
10061-02-6	trans-1,3-Dichloropropene	5	ND
75-25-2	Bromoform	5	ND
108-10-1	4-Methyl-2-Pentanone	10	ND
591-78-6	2-Hexanone	10	48
127-18-4	Tetrachloroethene	5	15
79-34-5	1,1,2,2-Tetrachloroethane	5	ND
108-88-3	Toluene	5	770
108-90-7	Chlorobenzene	5	ND
100-41-4	Ethylbenzene	5	42
100-42-5	Styrene	5	ND
	Xylene (Total)	5	142
67-64-1	Acetone	20	2,200

ND = NOT DETECTED

JULY 20, 1990


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LABORATORY DIRECTOR

ENVIRONMENTAL METRICS

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ATTN: PAUL SPELL
PO #7191
INVOICE: 9423

VOLATILE ORGANIC ANALYSIS


METHOD EPA 601/602

SAMPLE ID: TREATMENT PLANT WELL

<u>CAS NUMBER</u>		<u>DETECTION LIMIT</u>	<u>RESULTS</u>
74-87-3	Chloromethane	10 µg/l	ND µg/l
74-83-9	Bromomethane	10	ND
75-01-4	Vinyl Chloride	10	ND
75-00-3	Chloroethane	10	ND
75-09-2	Methylene Chloride	20	33
75-15-0	Carbon Disulfide	5	ND
75-35-4	1,1-Dichloroethene	5	ND
75-34-3	1,1-Dichloroethane	5	ND
	1,2-Dichloroethene (Total)	5	ND
67-66-3	Chloroform	20	ND
107-06-2	1,2-Dichloroethane	5	ND
78-93-3	2-Butanone	15	36
71-55-6	1,1,1-Trichloroethane	5	ND
56-23-5	Carbon Tetrachloride	5	ND
108-05-4	Vinyl Acetate	50	ND
75-27-4	Bromodichloromethane	5	ND
78-87-5	1,2-Dichloropropane	5	ND
10061-01-5	cis-1,3-Dichloropropene	5	ND
79-01-6	Trichloroethene	5	ND
124-48-1	Dibromochloromethane	5	ND
79-00-5	1,1,2-Trichloroethane	5	ND
71-43-2	Benzene	5	ND
10061-02-6	trans-1,3-Dichloropropene	5	ND
75-25-2	Bromoform	5	ND
108-10-1	4-Methyl-2-Pentanone	10	ND
591-78-6	2-Hexanone	10	ND
127-18-4	Tetrachloroethene	5	ND
79-34-5	1,1,2,2-Tetrachloroethane	5	ND
108-88-3	Toluene	5	ND
108-90-7	Chlorobenzene	5	ND
100-41-4	Ethylbenzene	5	ND
100-42-5	Styrene	5	ND
	Xylene (Total)	5	ND
67-64-1	Acetone	20	23

ND = NOT DETECTED

JULY 20, 1990


WAYNE L. COOPER
LABORATORY DIRECTOR

IRONMETRICS

SITEX ENVIRONMENTAL, INC.
11905 BORMAN DRIVE
ST. LOUIS, MO 63146

2345 Millpark Drive
Maryland Heights, MO 63043
(314) 427-0550

ATTN: PAUL SPELL
PO #7191
INVOICE: 9423

VOLATILE ORGANIC ANALYSIS


METHOD EPA 601/602

SAMPLE ID: WELL 2

<u>CAS NUMBER</u>		<u>DETECTION LIMIT</u>	<u>RESULTS</u>
74-87-3	Chloromethane	10 µg/l	ND µg/l
74-83-9	Bromomethane	10	ND
75-01-4	Vinyl Chloride	10	ND
75-00-3	Chloroethane	10	ND
75-09-2	Methylene Chloride	20	ND
75-15-0	Carbon Disulfide	5	ND
75-35-4	1,1-Dichloroethene	5	ND
75-34-3	1,1-Dichloroethane	5	ND
	1,2-Dichloroethene (Total)	5	ND
67-66-3	Chloroform	20	ND
107-06-2	1,2-Dichloroethane	5	ND
78-93-3	2-Butanone	15	ND
71-55-6	1,1,1-Trichloroethane	5	ND
56-23-5	Carbon Tetrachloride	5	ND
108-05-4	Vinyl Acetate	50	ND
75-27-4	Bromodichloromethane	5	ND
78-87-5	1,2-Dichloropropane	5	ND
10061-01-5	cis-1,3-Dichloropropene	5	ND
79-01-6	Trichloroethene	5	ND
124-48-1	Dibromochloromethane	5	ND
79-00-5	1,1,2-Trichloroethane	5	ND
71-43-2	Benzene	5	ND
10061-02-6	trans-1,3-Dichloropropene	5	ND
75-25-2	Bromoform	5	ND
108-10-1	4-Methyl-2-Pentanone	10	ND
591-78-6	2-Hexanone	10	ND
127-18-4	Tetrachloroethene	5	ND
79-34-5	1,1,2,2-Tetrachloroethane	5	ND
108-88-3	Toluene	5	ND
108-90-7	Chlorobenzene	5	ND
100-41-4	Ethylbenzene	5	ND
100-42-5	Styrene	5	ND
	Xylene (Total)	5	ND
67-64-1	Acetone	20	28

ND = NOT DETECTED

JULY 20, 1990


WAYNE L. COOPER
LABORATORY DIRECTOR

E **VI**RONMETRICS

SITEX ENVIRONMENTAL, INC.
11905 BORMAN DRIVE
ST. LOUIS, MO 63146

2345 Millpark Drive
Maryland Heights, MO 63043
(314) 427-0550

ATTN: PAUL SPELL
PO #7191
INVOICE: 9423

VOLATILE ORGANIC ANALYSIS

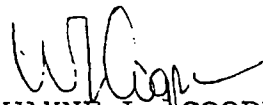
METHOD EPA 601/602

SAMPLE ID: WELL 4

<u>CAS NUMBER</u>		<u>DETECTION LIMIT</u>	<u>RESULTS</u>
74-87-3	Chloromethane	10 µg/l	ND µg/l
74-83-9	Bromomethane	10	ND
75-01-4	Vinyl Chloride	10	ND
75-00-3	Chloroethane	10	ND
75-09-2	Methylene Chloride	20	ND
75-15-0	Carbon Disulfide	5	ND
75-35-4	1,1-Dichloroethene	5	ND
75-34-3	1,1-Dichloroethane	5	ND
	1,2-Dichloroethene (Total)	5	ND
67-66-3	Chloroform	20	ND
107-06-2	1,2-Dichloroethane	5	ND
78-93-3	2-Butanone	15	ND
71-55-6	1,1,1-Trichloroethane	5	ND
56-23-5	Carbon Tetrachloride	5	ND
108-05-4	Vinyl Acetate	50	ND
75-27-4	Bromodichloromethane	5	ND
78-87-5	1,2-Dichloropropane	5	ND
10061-01-5	cis-1,3-Dichloropropene	5	ND
79-01-6	Trichloroethene	5	ND
124-48-1	Dibromochloromethane	5	ND
79-00-5	1,1,2-Trichloroethane	5	ND
71-43-2	Benzene	5	ND
10061-02-6	trans-1,3-Dichloropropene	5	ND
75-25-2	Bromoform	5	ND
108-10-1	4-Methyl-2-Pentanone	10	ND
591-78-6	2-Hexanone	10	ND
127-18-4	Tetrachloroethene	5	ND
79-34-5	1,1,2,2-Tetrachloroethane	5	ND
108-88-3	Toluene	5	ND
108-90-7	Chlorobenzene	5	ND
100-41-4	Ethylbenzene	5	ND
100-42-5	Styrene	5	ND
	Xylene (Total)	5	ND
67-64-1	Acetone	20	ND

ND = NOT DETECTED

JULY 20, 1990


WAYNE L. COOPER
LABORATORY DIRECTOR

ENVIRONMENTAL METRICS

SITEX ENVIRONMENTAL, INC.
11905 BORMAN DRIVE
ST. LOUIS, MO 63146

2345 Millpark Drive
Maryland Heights, MO 63043
(314) 427-0550

ATTN: PAUL SPELL
PO #7191
INVOICE: 9423

VOLATILE ORGANIC ANALYSIS


METHOD EPA 601/602

SAMPLE ID: WELL 5

<u>CAS NUMBER</u>		<u>DETECTION LIMIT</u>	<u>RESULTS</u>
74-87-3	Chloromethane	10 µg/l	ND µg/l
74-83-9	Bromomethane	10	ND
75-01-4	Vinyl Chloride	10	ND
75-00-3	Chloroethane	10	ND
75-09-2	Methylene Chloride	20	ND
75-15-0	Carbon Disulfide	5	ND
75-35-4	1,1-Dichloroethene	5	ND
75-34-3	1,1-Dichloroethane	5	ND
	1,2-Dichloroethene (Total)	5	ND
67-66-3	Chloroform	20	ND
107-06-2	1,2-Dichloroethane	5	ND
78-93-3	2-Butanone	15	ND
71-55-6	1,1,1-Trichloroethane	5	ND
56-23-5	Carbon Tetrachloride	5	ND
108-05-4	Vinyl Acetate	50	ND
75-27-4	Bromodichloromethane	5	ND
78-87-5	1,2-Dichloropropane	5	ND
10061-01-5	cis-1,3-Dichloropropene	5	ND
79-01-6	Trichloroethene	5	ND
124-48-1	Dibromochloromethane	5	ND
79-00-5	1,1,2-Trichloroethane	5	ND
71-43-2	Benzene	5	ND
10061-02-6	trans-1,3-Dichloropropene	5	ND
75-25-2	Bromoform	5	ND
108-10-1	4-Methyl-2-Pentanone	10	ND
591-78-6	2-Hexanone	10	ND
127-18-4	Tetrachloroethene	5	ND
79-34-5	1,1,2,2-Tetrachloroethane	5	ND
108-88-3	Toluene	5	ND
108-90-7	Chlorobenzene	5	ND
100-41-4	Ethylbenzene	5	ND
100-42-5	Styrene	5	ND
	Xylene (Total)	5	ND
67-64-1	Acetone	20	20

ND = NOT DETECTED

JULY 20, 1990


WAYNE L. COOPER
LABORATORY DIRECTOR

E. VIRONMETRICS

SITEX ENVIRONMENTAL, INC.
11905 BORMAN DRIVE
ST. LOUIS, MO 63146

2345 Millpark Drive
Maryland Heights, MO 63043
(314) 427-0550

ATTN: PAUL SPELL
PO #7191
INVOICE: 9423

VOLATILE ORGANIC ANALYSIS


METHOD EPA 601/602

SAMPLE ID: WELL 7

<u>CAS NUMBER</u>		<u>DETECTION LIMIT</u>	<u>RESULTS</u>
74-87-3	Chloromethane	10 µg/l	ND µg/l
74-83-9	Bromomethane	10	ND
75-01-4	Vinyl Chloride	10	ND
75-00-3	Chloroethane	10	ND
75-09-2	Methylene Chloride	20	42
75-15-0	Carbon Disulfide	5	ND
75-35-4	1,1-Dichloroethene	5	ND
75-34-3	1,1-Dichloroethane	5	ND
	1,2-Dichloroethene (Total)	5	ND
67-66-3	Chloroform	20	ND
107-06-2	1,2-Dichloroethane	5	ND
78-93-3	2-Butanone	15	ND
71-55-6	1,1,1-Trichloroethane	5	ND
56-23-5	Carbon Tetrachloride	5	ND
108-05-4	Vinyl Acetate	50	ND
75-27-4	Bromodichloromethane	5	ND
78-87-5	1,2-Dichloropropane	5	ND
10061-01-5	cis-1,3-Dichloropropene	5	ND
79-01-6	Trichloroethene	5	ND
124-48-1	Dibromochloromethane	5	ND
79-00-5	1,1,2-Trichloroethane	5	ND
71-43-2	Benzene	5	ND
10061-02-6	trans-1,3-Dichloropropene	5	ND
75-25-2	Bromoform	5	ND
108-10-1	4-Methyl-2-Pentanone	10	ND
591-78-6	2-Hexanone	10	ND
127-18-4	Tetrachloroethene	5	ND
79-34-5	1,1,2,2-Tetrachloroethane	5	ND
108-88-3	Toluene	5	ND
108-90-7	Chlorobenzene	5	ND
100-41-4	Ethylbenzene	5	ND
100-42-5	Styrene	5	ND
	Xylene (Total)	5	ND
67-64-1	Acetone	20	ND

ND = NOT DETECTED

JULY 20, 1990


WAYNE L. COOPER
LABORATORY DIRECTOR

SITEX ENVIRONMENTAL, INC.
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 PO #7191
 INVOICE: 9423

VOLATILE ORGANIC ANALYSIS

METHOD EPA 601/602

SAMPLE ID: WELL 8

<u>CAS NUMBER</u>		<u>DETECTION LIMIT</u>	<u>RESULTS</u>
74-87-3	Chloromethane	10 µg/l	ND µg/l
74-83-9	Bromomethane	10	ND
75-01-4	Vinyl Chloride	10	ND
75-00-3	Chloroethane	10	ND
75-09-2	Methylene Chloride	20	ND
75-15-0	Carbon Disulfide	5	ND
75-35-4	1,1-Dichloroethene	5	ND
75-34-3	1,1-Dichloroethane	5	ND
	1,2-Dichloroethene (Total)	5	ND
67-66-3	Chloroform	20	ND
107-06-2	1,2-Dichloroethane	5	ND
78-93-3	2-Butanone	15	ND
71-55-6	1,1,1-Trichloroethane	5	ND
56-23-5	Carbon Tetrachloride	5	ND
108-05-4	Vinyl Acetate	50	ND
75-27-4	Bromodichloromethane	5	ND
78-87-5	1,2-Dichloropropane	5	ND
10061-01-5	cis-1,3-Dichloropropene	5	ND
79-01-6	Trichloroethene	5	ND
124-48-1	Dibromochloromethane	5	ND
79-00-5	1,1,2-Trichloroethane	5	ND
71-43-2	Benzene	5	ND
10061-02-6	trans-1,3-Dichloropropene	5	ND
75-25-2	Bromoform	5	ND
108-10-1	4-Methyl-2-Pentanone	10	ND
591-78-6	2-Hexanone	10	ND
127-18-4	Tetrachloroethene	5	ND
79-34-5	1,1,2,2-Tetrachloroethane	5	ND
108-88-3	Toluene	5	6
108-90-7	Chlorobenzene	5	ND
100-41-4	Ethylbenzene	5	ND
100-42-5	Styrene	5	ND
	Xylene (Total)	5	25
67-64-1	Acetone	20	ND

ND = NOT DETECTED

JULY 20, 1990



WAYNE L. COOPER
 LABORATORY DIRECTOR

SITEX ENVIRONMENTAL, INC.
 11905 BORMAN DRIVE
 ST. LOUIS, MO 63146

2345 Millpark Drive
 Maryland Heights, MO 63043
 (314) 427-0550

ATTN: PAUL SPELL
 PO #7191
 INVOICE: 9423

VOLATILE ORGANIC ANALYSIS

METHOD EPA 601/602

SAMPLE ID: WELL 9

<u>CAS NUMBER</u>		<u>DETECTION LIMIT</u>	<u>RESULTS</u>
74-87-3	Chloromethane	10 µg/l	ND µg/l
74-83-9	Bromomethane	10	ND
75-01-4	Vinyl Chloride	10	ND
75-00-3	Chloroethane	10	ND
75-09-2	Methylene Chloride	20	ND
75-15-0	Carbon Disulfide	5	ND
75-35-4	1,1-Dichloroethene	5	ND
75-34-3	1,1-Dichloroethane	5	ND
	1,2-Dichloroethene (Total)	5	ND
67-66-3	Chloroform	20	ND
107-06-2	1,2-Dichloroethane	5	ND
78-93-3	2-Butanone	15	ND
71-55-6	1,1,1-Trichloroethane	5	ND
56-23-5	Carbon Tetrachloride	5	ND
108-05-4	Vinyl Acetate	50	ND
75-27-4	Bromodichloromethane	5	ND
78-87-5	1,2-Dichloropropane	5	ND
10061-01-5	cis-1,3-Dichloropropene	5	ND
79-01-6	Trichloroethene	5	ND
124-48-1	Dibromochloromethane	5	ND
79-00-5	1,1,2-Trichloroethane	5	ND
71-43-2	Benzene	5	ND
10061-02-6	trans-1,3-Dichloropropene	5	ND
75-25-2	Bromoform	5	ND
108-10-1	4-Methyl-2-Pentanone	10	ND
591-78-6	2-Hexanone	10	ND
127-18-4	Tetrachloroethene	5	ND
79-34-5	1,1,2,2-Tetrachloroethane	5	ND
108-88-3	Toluene	5	ND
108-90-7	Chlorobenzene	5	ND
100-41-4	Ethylbenzene	5	ND
100-42-5	Styrene	5	ND
	Xylene (Total)	5	ND
67-64-1	Acetone	20	ND

ND = NOT DETECTED

JULY 20, 1990


 WAYNE L. COOPER
 LABORATORY DIRECTOR