

469

Con 12-15  
Knoxville Coal Gas



TERRY E. BRANSTAD, GOVERNOR

DEPARTMENT OF NATURAL RESOURCES  
LARRY J. WILSON, DIRECTOR

TRANSMITTAL FORM

TO: Dean Hagens  
Alliant Energy  
200 First Street SE, P.O. Box 351  
Cedar Rapids, IA 52406-0351

FROM: Mick Leaf  
Phone: (515) 281-8045  
DATE: 4/28/04

..... Enclosed or attached is the following: .....

No.	Description
1	Knoxville Lab Reports

- For your information and use
- As requested
- Review and comment
- Necessary action
- Please return
- As noted below

REMARKS: Call with questions.  
Mick



542-0926





# Hygienic Laboratory

*The University of Iowa*

Page 2

Sample Number 200401859

## Description of units used within this report

ug/kg - Micrograms per Kilogram

Quant Limit - Lowest concentration reliably measured

Iowa Laboratory Certification No. 027. AIHA, NELAP, NVLAP, USEPA, and other credentials available upon request.

*If you have any questions please call Sherri Marine at 800/421-IOWA (4692) or 319/335-4500. Thank you.*

End of Report

Mary J. R. Gilchrist, Ph.D.  
Director

102 Oakdale Campus, #101 OH  
Iowa City, Iowa 52242-5002  
319/335-4500 Fax: 319/335-4555

<http://www.uhl.uiowa.edu>

H.A. Wallace Building  
East Grand, Des Moines, Iowa 50319-0034  
515/281-5371 Fax: 515/243-1349





# Hygienic Laboratory

*The University of Iowa*

Page 2

Sample Number 200401860

**Description of units used within this report**

ug/kg - Micrograms per Kilogram

Quant Limit - Lowest concentration reliably measured

Iowa Laboratory Certification No. 027. AIHA, NELAP, NVLAP, USEPA, and other credentials available upon request.

*If you have any questions please call Sherri Marine at 800/421-IOWA (4692) or 319/335-4500. Thank you.*

End of Report

Mary J. R. Gilchrist, Ph.D.  
Director

102 Oakdale Campus, #101 OH  
Iowa City, Iowa 52242-5002  
319/335-4500 Fax: 319/335-4555

<http://www.uhl.uiowa.edu>

H.A. Wallace Building  
East Grand, Des Moines, Iowa 50319-0034  
515/281-5371 Fax: 515/243-1349





# Hygienic Laboratory

*The University of Iowa*

Page 2

Sample Number 200401861

**Description of units used within this report**

ug/kg - Micrograms per Kilogram

Quant Limit - Lowest concentration reliably measured

Iowa Laboratory Certification No. 027. AIHA, NELAP, NVLAP, USEPA, and other credentials available upon request.

*If you have any questions please call Sherri Marine at 800/421-IOWA (4692) or 319/335-4500. Thank you.*

End of Report

Mary J. R. Gilchrist, Ph.D.  
Director

102 Oakdale Campus, #101 OH  
Iowa City, Iowa 52242-5002  
319/335-4500 Fax: 319/335-4555

<http://www.uhl.uiowa.edu>

H.A. Wallace Building  
East Grand, Des Moines, Iowa 50319-0034  
515/281-5371 Fax: 515/243-1349

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SCP-10

Lab Name: University Hygienic Lab Contract: \_\_\_\_\_

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 200401859

Sample wt/vol: 30 (g/ml) G Lab File ID: 6103E07.D

Level: (low/med) LOW Date Received: 3/25/2004

% Moisture: 0 decanted: (Y/N) N Date Extracted: 3/31/2004

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 4/12/2004

Injection Volume: 2.0 (uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

## CONCENTRATION UNITS:

Number TICs found: 25 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 000095-13-6	Indene	7.61	4800	JND
2.	unknown hydrocarbon	9.24	6600	JD
3. 000090-12-0	Naphthalene, 1-methyl-	11.75	31000	JND
4. 000092-52-4	Biphenyl	12.63	6600	JND
5. 001127-76-0	Naphthalene, 1-ethyl-	12.86	12000	JND
6.	Dimethyl Naphthalene isomer	13.02	4200	JD
7.	Dimethyl Naphthalene isomer	13.21	11000	JD
8.	Dimethyl Naphthalene isomer	13.27	7000	JD
9.	Dimethyl Naphthalene isomer	13.49	5400	JD
10.	Trimethyl Naphthalene isomer	14.81	4600	JD
11.	unknown hydrocarbon	15.66	3300	JD
12.	unknown aromatic	15.93	7000	JD
13.	unknown hydrocarbon	15.97	3500	JD
14. 001921-70-6	Pentadecane, 2,6,10,14-tetramet	16.36	3600	JND
15. 001730-37-6	C14H12 PAH	16.73	4900	JND
16. 000132-65-0	Dibenzothiophene	17.43	5600	JND
17.	C15H12 PAH	18.94	9000	JD
18.	C15H12 PAH	19.01	10000	JD
19.	C15H12 PAH	19.12	4000	JD
20.	unknown PAH	19.21	17000	JD
21. 000832-64-4	C15H12 PAH	19.27	6500	JND
22. 035465-71-5	2-Phenylnaphthalene	19.68	4700	JND
23.	C16H14 PAH	20.30	6000	JD
24.	C16H10 PAH	20.92	7400	JD
25. 000198-55-0	Perylene	27.30	6500	JND

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SCP-12

Lab Name: University Hygienic Lab Contract: \_\_\_\_\_

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 200401860

Sample wt/vol: 30 (g/ml) G Lab File ID: 6103E08.D

Level: (low/med) LOW Date Received: 3/25/2004

% Moisture: 0 decanted: (Y/N) N Date Extracted: 3/31/2004

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 4/12/2004

Injection Volume: 2.0 (uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

## CONCENTRATION UNITS:

Number TICs found: 25 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 000095-13-6	Indene	7.62	5000	JND
2.	unknown hydrocarbon	9.24	9300	JD
3. 000090-12-0	Naphthalene, 1-methyl-	11.75	30000	JND
4. 000092-52-4	Biphenyl	12.63	5500	JND
5. 001127-76-0	Naphthalene, 1-ethyl-	12.87	13000	JND
6.	Dimethyl Naphthalene isomer	13.02	5200	JD
7.	Dimethyl Naphthalene isomer	13.21	13000	JD
8.	Dimethyl Naphthalene isomer	13.27	6200	JD
9.	Dimethyl Naphthalene isomer	13.49	4100	JD
10.	C13H14 aromatic	14.30	4500	JD
11.	Trimethyl Naphthalene isomer	14.82	6100	JD
12.	Trimethyl Naphthalene isomer	15.05	4400	JD
13. 001921-70-6	Pentadecane, 2,6,10,14-tetramet	16.36	5700	JND
14.	C14H12 PAH	16.80	4300	JD
15.	unknown hydrocarbon	17.51	4800	JD
16.	C15H12 PAH	18.94	9700	JD
17.	C15H12 PAH	19.01	12000	JD
18.	C15H12 PAH	19.12	4700	JD
19.	unknown PAH	19.21	17000	JD
20.	C15H12 PAH	19.27	7100	JD
21. 035465-71-5	2-Phenylnaphthalene	19.68	4900	JND
22.	C16H14 PAH	20.30	7600	JD
23.	unknown PAH	20.39	5400	JD
24.	C16H10 PAH	20.92	6100	JD
25. 000198-55-0	Perylene	27.30	6600	JND

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SCP-24

Lab Name: University Hygienic Lab Contract: \_\_\_\_\_

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: \_\_\_\_\_

Matrix: (soil/water) SOIL Lab Sample ID: 200401861

Sample wt/vol: 30 (g/ml) G Lab File ID: 6103E09.D

Level: (low/med) LOW Date Received: 3/25/2004

% Moisture: 0 decanted: (Y/N) N Date Extracted: 3/31/2004

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 4/12/2004

Injection Volume: 2.0 (uL) Dilution Factor: 4.0

GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

## CONCENTRATION UNITS:

Number TICs found: 24 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown hydrocarbon	9.24	1300	JD
2. 017301-23-4	Undecane, 2,6-dimethyl-	9.97	2500	JND
3. 006434-76-0	6-Tridecene, (E)-	10.31	820	JND
4.	unknown hydrocarbon	10.52	2200	JD
5.	unknown hydrocarbon	10.64	840	JD
6.	unknown hydrocarbon	10.72	1100	JD
7.	unknown hydrocarbon	10.83	2900	JD
8.	unknown	10.87	900	JD
9.	unknown hydrocarbon	11.24	930	JD
10. 000629-50-5	Tridecane	11.48	1600	JND
11. 000090-12-0	Naphthalene, 1-methyl-	11.74	1600	JND
12.	unknown hydrocarbon	11.93	1000	JD
13.	unknown hydrocarbon	12.00	860	JD
14. 003891-98-3	Dodecane, 2,6,10-trimethyl-	12.29	2200	JND
15.	unknown hydrocarbon	12.62	1100	JD
16.	Dimethy Naphthalene isomer	13.21	1100	JD
17. 055045-12-0	Tetradecane, 4,11-dimethyl-	13.41	2800	JND
18.	unknown hydrocarbon	14.73	1300	JD
19.	Trimethyl Naphthalene isomer	15.04	750	JD
20.	unknown hydrocarbon	15.71	3100	JD
21. 001921-70-6	Pentadecane, 2,6,10,14-tetramet	16.37	4900	JND
22.	unknown hydrocarbon	17.52	4100	JD
23.	unknown hydrocarbon	18.39	960	JD
24.	unknown PAH	19.21	870	JD



# Hygienic Laboratory

The University of Iowa

## CHAIN-OF-CUSTODY

Purchase Order #

Contact Name		Phone		Analysis Requested								Project Name and/or Number	
Mick Leat		(515) 281-8045		PAHs, 8270								Knoxville Coal Gas / Act. Code 3040	
Company		Fax										Collector's Phone #	
IDNR - Wallace Bldg.		(515) 281-8895										(515) 281-8045	
Address												Print Collector's Name	
900 E. Grand Ave.				Mick Leat									
City		State	Zip	Collector's Signature									
Des Moines		IA	50319										
Sample ID/Description		Date	Time	W	S	Other	Comments/UHL Sample Number						
1. SCP-10 (6-7')		3/24/04	10:25 am	X		X	200401859						
2. SCP-12 (6.5-7.5')		3/24/04	11:15 am	X		X	200401860						
3. SCP-24 (7-8')		3/24/04	2:50 pm	X		X	200401861						
4.													
5.													
6.													
7.													
8.													

Relinquished by	Date	Time	Comments
-----------------	------	------	----------

	3/25/04	3:45 pm	
--	---------	---------	--

Relinquished by	Date	Time	Comments
-----------------	------	------	----------

			Held in refriger. overnight and processed on Monday 3-29-04 MB
--	--	--	--

Sample receiving custodian	Date	Time	Sample Receipt Comments
----------------------------	------	------	-------------------------

Kevin D. Van Acker	3/29 25/04	3:50 pm	1-4 oz each IC
--------------------	------------	---------	----------------