

Leslie S. Hyde
Vice President, Safety and Environmental Affairs



2007 JAN 22 PM 1 21

January 18, 2007

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Via certified mail 7005 1820 0004 7434 5192

Jim Ross
Wisconsin Department of Natural Resources
810 West Maple Street
Spooner, WI 54801

**RE: Koppers Inc. Superior, Wisconsin Facility
Former Wood Treating Facility Drip Pad Decommissioning**

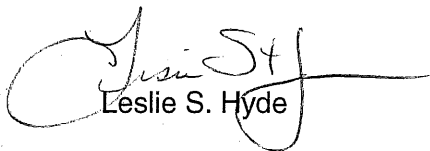
Dear Mr. Ross,

Attached are two copies of the report on the sampling conducted in conjunction with the closure of the drip track at the Koppers Inc Superior facility. This work was conducted in accordance with the Work Plan for a Drip Pad Closure Investigation submitted to WDNR on November 6, 2006.

As we discussed with you and Mr. Hosch, and as described in the Work Plan, the analyses conducted pursuant to this Work Plan are intended to allow the Wisconsin Department of Natural Resources to approve the clean closure of the drip pad, pending completion of Resource Conservation and Recovery Act Corrective Action activities for the entire property.

Please feel free to contact me with any questions.

Sincerely,



Leslie S. Hyde

Cc:
Jane Patarcity, Beazer East, Inc.
File

P.C. Jim Hosch - Superior

**REPORT
DRIP PAD CLOSURE INVESTIGATION**

**KOPPERS INC.
SUPERIOR, WISCONSIN FACILITY**

Prepared for:
**KOPPERS INC.
436 SEVENTH AVENUE
PITTSBURGH, PENNSYLVANIA 15219-1800**

JANUARY 2007



KU Resources, Inc.

ENVIRONMENTAL MANAGEMENT - SITE DEVELOPMENT ENGINEERING

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**REPORT
DRIP PAD CLOSURE INVESTIGATION**

**KOPPERS INC.
SUPERIOR, WISCONSIN FACILITY**

Prepared for:
**KOPPERS INC.
436 SEVENTH AVENUE
PITTSBURGH, PENNSYLVANIA 15219-1800**

Prepared by:
**KU RESOURCES, INC.
22 SOUTH LINDEN STREET
DUQUESNE, PENNSYLVANIA 15110**

JANUARY 2007



TABLE OF CONTENTS

1.0 INTRODUCTION 1
2.0 SAMPLING SUMMARY 1
 2.1 Surface Soil Sampling 1
 2.2 Groundwater Sampling..... 1
 2.3 Laboratory Analysis..... 2
 2.4 Quality Control 2
3.0 RESULTS 3
 3.1 Surface Soil Samples..... 3
 3.2 Groundwater Samples 3
4.0 CONCLUSION 3

FIGURE

Figure 1 Sampling Locations

ATTACHMENTS

- Attachment 1 Soil Sample Log
- Attachment 2 Soil Boring Log; Monitoring Well Construction, Monitoring Well Development, and Monitoring Well Abandonment Forms
- Attachment 3 Laboratory Analytical Data Soil
- Attachment 4 Laboratory Analytical Data Groundwater



1.0 INTRODUCTION

This Report summarizes the investigation activities associated with demonstrating clean closure of the less than 90-day accumulation drip pad at the Koppers Inc., Superior, Wisconsin facility. The objective for conducting these activities was to allow the Wisconsin Department of Natural Resources (WDNR) to approve the clean closure of the drip pad, pending completion of Resource Conservation and Recovery Act Corrective Action activities for the entire property.

Sampling and sample handling activities adhered to the *Work Plan, Drip Pad Closure Investigation* (KU Resources, November 2006), that was approved by the WDNR. The following describes the sample collection and analyses that were performed, and presents the results of these investigation activities.

In summary, the investigation activities included the following:

- Collection of six surface soil samples along the drip pad;
- Installation of two temporary monitoring wells and collection of one groundwater sample from each well;
- Laboratory analysis of the soil and groundwater samples; and
- Subsequent abandonment of the temporary monitoring wells.

2.0 SAMPLING SUMMARY

2.1 Surface Soil Sampling

Three pairs of surface soil samples were collected from each side of the drip pad, at points located at 150, 300, and 450 feet from the cylinder door area (see Figure 1). The soil samples were collected from the depth interval of zero (ground surface) to six inches.

Surface soil sampling was performed using a new hand trowel at each sampling location. Upon sample retrieval, the field investigator logged the sample, and placed the appropriate aliquots into laboratory-provided sample jars. Sample aliquots collected for volatile organic compound (VOC) analysis were obtained using Method 5035 protocols. The soil VOC samples were immediately preserved with 100% methanol at the time of collection. The filled jars were placed on ice in an insulated cooler for delivery to the analytical laboratory. Information for each location was recorded in a log, that is summarized as Attachment 1 to this Report. Following completion of sampling activities, the sampling locations were backfilled with surrounding native material.

2.2 Groundwater Sampling

Two temporary groundwater monitoring wells were installed on opposite sides along the drip pad, at points 150 and 300 feet from the cylinder door area (see Figure 1). A temporary surface casing was installed in order to minimize the possible infiltration of surface water. The surface casing extended from the surface into the first several inches of native clay. The temporary wells were installed inside the surface casing by advancing a small-diameter borehole with a decontaminated hand auger to a depth of approximately 8.5 feet below grade (see Attachment 2 for a copy of the Soil Boring Log and Monitoring



Well Construction Forms). The final depths of the temporary monitoring wells was dependent upon saturated conditions. A one-inch diameter machine-slotted PVC well screen was inserted in the borehole to the total depth. Fine sand was used to fill the annular space around the installed well screen to act as a formation stabilizer.

Well development/purging was performed following completion of monitoring well construction. Well development was performed to improve the flow of water into the well screen by removing fine particles from the formation immediately surrounding the screened well so that groundwater can enter the well more freely. Well development was accomplished by surging with a bailer then using a peristaltic pump to evacuate water from the wells. The wells were purged to dryness (twice) prior to sampling, to ensure fresh formation groundwater was sampled. The Monitoring Well Development Forms are also included in Attachment 2.

After development/purging, the temporary monitoring wells were allowed to equilibrate before collection of a groundwater sample. Wells were sampled using a peristaltic pump operating at low-flow conditions. Field measurements were made of depth to water, pH, conductivity, and temperature during sample collection, and the appropriate aliquots were placed in laboratory-provided sample jars. Samples for metals analysis were field-filtered using a 0.45-micron in-line filter with the peristaltic pump. The filled sample bottles were placed on ice in an insulated cooler for delivery to the analytical laboratory.

Following collection of the groundwater samples, the two temporary monitoring wells were abandoned by extracting the PVC casing from the ground and backfilling the borehole with bentonite powder. The Monitoring Well Abandonment Forms are also included in Attachment 2. Soil cuttings and development/purge water were containerized and managed by the facility representative along with other facility-generated hazardous waste.

2.3 Laboratory Analysis

The soil and groundwater samples were shipped in coolers under chain of custody protocols to Pace Analytical, a Wisconsin Certified Commercial Laboratory for all applicable analytical procedures.

The analytical suite for each of the soil and groundwater samples consisted of the following:

- VOCs (Method 8260B/5035)
- Polynuclear aromatic hydrocarbons (PAHs) and pentachlorophenol (Method 8270)
- Total chromium, copper, and arsenic (6000- and 7000-series Methods)

In addition, one surface soil sample from each sampling location pair (three samples total) was analyzed for dioxins/furans (Method 8290).

2.4 Quality Control

Internal routine QC checks were performed by the laboratory. In addition, a cooler temperature blank, and a trip (travel) blank for VOC analysis were placed in the cooler prior to shipment to the laboratory, and a duplicate samples were collected and analyzed for each parameter, for each media.



3.0 RESULTS

3.1 Surface Soil Samples

The following subsection provides the results for surface soil samples collected along the drip pad. The full analytical laboratory data package is included as Attachment 3 to this Report. In general:

- The metals of interest are present at relatively low concentrations at all locations;
- The volatile organic compounds are present at relatively low concentrations at all locations, mostly consisting of ethylbenzene, xylenes, and occasionally naphthalene, although other volatile organic compounds were detected at very low concentrations between the limit of detection and limit of quantitation (qualified with a "Q" in the laboratory data package);
- The semi-volatile organic compound polynuclear aromatic hydrocarbons were present at all locations at relatively low concentrations, and pentachlorophenol was not present in the samples from any location; and
- The dioxins/furans were detected at all locations at negligible concentrations (low nanogram per kilogram concentrations).

3.2 Groundwater Samples

The following subsection provides the results for groundwater samples collected from the two temporary wells. The full analytical laboratory data package is included as Attachment 4 to this Report. In general:

- The metals of interest are present at relatively low concentrations in both well samples;
- The volatile organic compound naphthalene was the only volatile organic compound present in only one of the well samples (it should be noted that the semi-volatile analyses for this sample is two orders of magnitude less than the volatile analysis); and
- The semi-volatile organic compound polynuclear aromatic hydrocarbons were present at relatively low concentrations in both well samples, and pentachlorophenol was present at relatively low concentrations in both well samples.

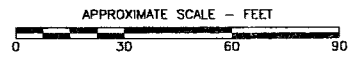
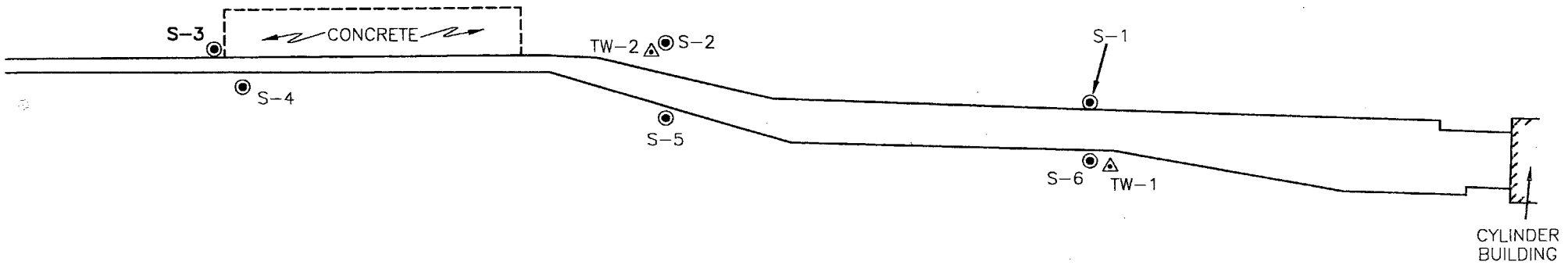
4.0 CONCLUSION

As a consequence of the completion of these activities, it is expected that the WDNR will approve the clean closure of the drip pad, pending the completion of Resource Conservation and Recovery Act Corrective Action activities for the entire property.




FIGURE





LEGEND

- SOIL SAMPLE
- ▲ TEMPORARY MONITORING WELL
- DRIP PAD

REVISION	DATE	DESCRIPTION
FIGURE 1 SOIL SAMPLING LOCATION DIAGRAM KOPPERS INC. SUPERIOR, WISCONSIN		
PREPARED FOR KOPPERS, INC. PITTSBURGH, PENNSYLVANIA		
APPROVED	RS 12/18/2006	 KU RESOURCES, INC. 22 SOUTH LINDEN STREET DUQUESNE, PA 15110 (412) 469-9331 FAX: (412) 469-9336 www.kuresources.com
CHECKED	RS 12/18/2006	
DRAWN	RB 12/11/2006	
PROJECT NO.	KL06303SDPC.P	
DRAWING NUMBER		06303B002

ATTACHMENTS



**Attachment 1
Soil Sample Log**



SOIL SAMPLE LOG SUMMARY

Soil Sample Location	Collection Time	Sample Location Description
S-1	1145	Base coarse gravel and ballast
S-2	1215	Base coarse gravel and ballast. Duplicate sample collected.
S-3	1240	Base coarse gravel and ballast
S-4	1255	Base coarse gravel and clay
S-5	1320	Base coarse gravel
S-6	1345	Base coarse gravel

Notes: Soil samples collected on November 20, 2006
Surface soil samples collected from surface to six inches below ground surface (0-6 inches)



Attachment 2
Soil Boring Log; Monitoring Well Construction, Monitoring Well Development, and Monitoring Well Abandonment Forms



Route To: Watershed/Wastewater Waste Management
 Remediation/Revelopment Other

Page 1 of 1

Facility/Project Name KUMPEAS INC		License/Permit/Monitoring Number		Boring Number TW-1	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: PAT Last Name: MCCARNEY		Date Drilling Started 11/29/2006		Date Drilling Completed 11/29/2006	
Firm: KU RESOURCES INC		Final Static Water Level Feet MSL		Drilling Method HAND AUGER	
WI Unique Well No.	DNR Well ID No.	Well Name TW-1		Surface Elevation Feet MSL	Borehole Diameter 4 inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>		Lat <u>0</u> ' "		Local Grid Location	
State Plane <u>N</u> , <u>E</u>		Long <u>0</u> ' "		<input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
1/4 of <u> </u> 1/4 of Section <u> </u> , T <u> </u> N, R <u> </u>		County DOUGLAS		County Code <u> </u>	
Facility ID <u> </u>		Civil Town/City/ or Village SUPERIOR			

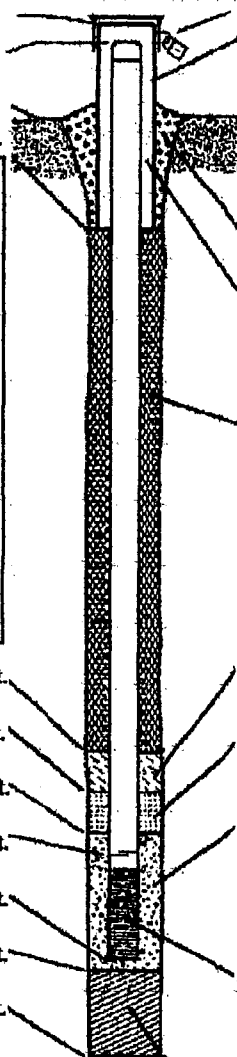
Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PTD/FID	Soil Properties					ROD/Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
			1.5	Base course gravel and R.R. Ballast, moist											
			3.0	Black organic clay, moist	OL										
			8.5	Brown silty clay, moist	CL										
				ROB End of boring installed temporary 1" monitoring well abandoned boring and well with bentonite											

I hereby certify that the information on this form is true and correct to the best of my knowledge.
Signature Pat McCahey Firm KU Resources, Inc

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Facility/Project Name KOPPERC, INC		Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.		Well Name TW-1	
Facility License, Permit or Monitoring No.		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/>		Wis. Unique Well No. DNR Well ID No.	
Facility ID		Lat. _____ " Long. _____ " or		Date Well Installed 11/20/2006 m m d d y y y y	
Type of Well		St. Plane _____ ft. N. _____ ft. E. S/C/N		Well Installed By: Name (first, last) and Firm PAT Mc CAHEY KU RESOURCES, INC	
Well Code _____		Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. <input type="checkbox"/> E <input type="checkbox"/> W			
Distance from Waste/Source _____ ft.		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		Gov. Lot Number _____	

A. Protective pipe, top elevation _____ ft. MSL	1. Cap and lock? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: _____ in.
C. Land surface elevation _____ ft. MSL	b. Length: _____ ft.
D. Surface seal, bottom <u>2.5</u> ft. MSL or _____ ft.	c. Material: Steel <input type="checkbox"/> 04 Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input checked="" type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>	
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	d. Additional protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: _____
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 <u>HAND AUGER</u> Other <input checked="" type="checkbox"/>	3. Surface seal: Bentonite <input checked="" type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input type="checkbox"/>
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Other <input type="checkbox"/>
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. Annular space seal: a. Granular/Chipped Bentonite <input type="checkbox"/> 33 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight . . . Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above
17. Source of water (attach analysis, if required): Describe _____	f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
E. Bentonite seal, top _____ ft. MSL or _____ ft.	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
F. Fine sand, top _____ ft. MSL or _____ ft.	7. Fine sand material: Manufacturer, product name & mesh size a. _____ b. Volume added _____ ft ³
G. Filter pack, top <u>2.5</u> ft. MSL or _____ ft.	8. Filter pack material: Manufacturer, product name & mesh size a. <u>20/40 BAUGER MINING</u> b. Volume added <u>3/4 BAG</u> ft ³
H. Screen joint, top <u>3.5</u> ft. MSL or _____ ft.	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
I. Well bottom <u>8.5</u> ft. MSL or _____ ft.	10. Screen material: <u>PVC SCH 40</u> a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
J. Filter pack, bottom <u>8.5</u> ft. MSL or _____ ft.	b. Manufacturer <u>CRESTLINE</u> c. Slot size: _____ d. Slotted length: <u>50ft.</u>
K. Borehole, bottom <u>8.5</u> ft. MSL or _____ ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>
L. Borehole, diameter <u>4.0</u> in.	
M. O.D. well casing <u>1.25</u> in.	
N. I.D. well casing <u>1.00</u> in.	



I hereby certify that the information on this form is true and correct to the best of my knowledge.
Signature Pat McCahey Firm KU Resources

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Route To: Watershed/Wastewater Waste Management
 Remediation/Revelpment Other

Page 1 of 1

Facility/Project Name <u>KOPPERS INC</u>		License/Permit/Monitoring Number	Boring Number <u>9W-2</u>
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: <u>PAT</u> Last Name: <u>Mc CARLEY</u> Firm: <u>KU Resources, Inc</u>		Date Drilling Started <u>11, 21, 2006</u> m m d d y y y y	Date Drilling Completed <u>11, 21, 2006</u> m m d d y y y y
WI Unique Well No.	DNR Well ID No.	Well Name	Drilling Method <u>Hand Auger</u>
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>		Final Static Water Level Feet MSL	Surface Elevation Feet MSL
State Plane N. E		Borehole Diameter <u>4</u> inches	
1/4 of Section T. N. R.		Local Grid Location Feet <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID	County <u>DOUGLAS</u>	County Code	Civil Town/City/ or Village <u>Superior</u>

Sample Number and Type	Length An. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
			2'	base course gravel and railroad ballast											
				brown silty clay, moist to wet, with ball oden at 2 1/2'	CL										
			8.5'	End of boring installed temporary 1" monitoring well abandoned boring & well with bentonite											

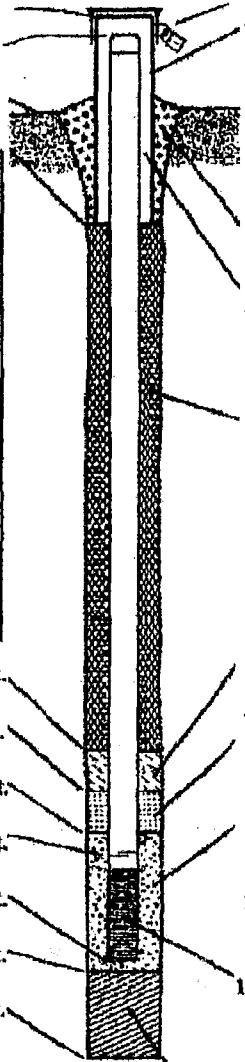
I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Pat Mc Carley Firm KU Resources

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Facility/Project Name <u>KOMPRESS, INC</u>	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name <u>TW-2</u>
Facility License, Permit or Monitoring No.	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/> Lat. " Long. " or " "	Wis. Unique Well No. DNR Well ID No.
Facility ID	St. Plane ft. N. ft. E. S/C/N	Date Well Installed <u>7/10/2000</u> m m d d y y y y
Type of Well Well Code <u>1</u>	Section Location of Waste/Source 1/4 of 1/4 of Sec. T. N. R. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Installed By: Name (first, last) and Firm <u>PAT Mc CREEY</u> <u>KU RESOURCES, INC</u>
Distance from Waste/Source ft. <u>1</u>	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation	ft. MSL	1. Cap and lock?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
B. Well casing, top elevation	ft. MSL	2. Protective cover pipe:	
C. Land surface elevation	ft. MSL	a. Inside diameter:	in.
D. Surface seal, bottom <u>2.5</u> ft. MSL or	ft.	b. Length:	ft.
		c. Material:	Steel <input type="checkbox"/> 04 Other <input type="checkbox"/>
12. USCS classification of soil near screen:		d. Additional protection?	<input type="checkbox"/> Yes <input type="checkbox"/> No
GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/>		If yes, describe:	
SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input checked="" type="checkbox"/> CH <input type="checkbox"/>		3. Surface seal:	Bentonite <input checked="" type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input type="checkbox"/>
Bedrock <input type="checkbox"/>		<u>BEN SEAL HYDRATED</u>	
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		4. Material between well casing and protective pipe:	Bentonite <input type="checkbox"/> 30 Other <input type="checkbox"/>
14. Drilling method used: Rotary <input type="checkbox"/> 50			
<u>HAND AUGER</u> Hollow Stem Auger <input type="checkbox"/> 41		5. Annular space seal:	a. Granular/Clipped Bentonite <input type="checkbox"/> 33 b. Lbs/gal mud weight... Bentonite-sand slurry <input type="checkbox"/> 35 c. Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31 d. % Bentonite... Bentonite-cement grout <input type="checkbox"/> 50 e. Ft ³ volume added for any of the above
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01		f. How installed:	Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99		6. Bentonite seal:	a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input type="checkbox"/> 32 c. Other <input type="checkbox"/>
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		7. Fine sand material: Manufacturer, product name & mesh size	
Describe		a.	
17. Source of water (attach analysis, if required):		b. Volume added	ft ³
		8. Filter pack material: Manufacturer, product name & mesh size	
		a. <u>20/40 BADGER MINING</u>	
		b. Volume added	ft ³
		9. Well casing:	Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
		10. Screen material: <u>PVC SCAFF 40</u>	
		a. Screen type:	Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
		b. Manufacturer	<u>CRESLINE</u>
		c. Slot size:	0.010 in.
		d. Slotted length:	<u>5</u> ft.
		11. Backfill material (below filter pack):	None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>



I hereby certify that the information on this form is true and correct to the best of my knowledge.
Signature Pat Mc Creey Firm KU Resources, Inc

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name <u>KOPPEN, INC</u>	County Name <u>DUGGANS</u>	Well Name <u>TW-1</u>
Facility License, Permit or Monitoring Number	County Code ---	Wis. Unique Well Number -----
		DNR Well ID Number -----

1. Can this well be purged dry? Yes No

2. Well development method

surged with bailer and bailed	<input type="checkbox"/> 41
surged with bailer and pumped	<input checked="" type="checkbox"/> 61
surged with block and bailed	<input type="checkbox"/> 42
surged with block and pumped	<input type="checkbox"/> 62
surged with block, bailed and pumped	<input type="checkbox"/> 70
compressed air	<input type="checkbox"/> 20
bailed only	<input type="checkbox"/> 10
pumped only	<input type="checkbox"/> 51
pumped slowly	<input type="checkbox"/> 50
Other _____	<input type="checkbox"/>

3. Time spent developing well 15 min.

4. Depth of well (from top of well casing) 10.2 ft.

5. Inside diameter of well 1.38 in.

6. Volume of water in filter pack and well casing 0.5 gal.

7. Volume of water removed from well 0.5 gal.

8. Volume of water added (if any) --- gal.

9. Source of water added ---

10. Analysis performed on water added? Yes No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>4.75</u> ft.	<u>3.60</u> ft.
Date	b. <u>11/27/2006</u>	<u>11/28/2006</u>
Time	c. <u>1:07</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.	<u>9:53</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.
12. Sediment in well bottom	<u>0.0</u> inches	<u>0.0</u> inches
13. Water clarity	Clear <input checked="" type="checkbox"/> 10 Turbid <input type="checkbox"/> 15 (Describe) _____	Clear <input checked="" type="checkbox"/> 20 Turbid <input type="checkbox"/> 25 (Describe) _____

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids _____ mg/l _____ mg/l

15. COD _____ mg/l _____ mg/l

16. Well developed by: Name (first, last) and Firm

First Name: JASON Last Name: ARONSON

Firm: TWIN PORTS TESTING, INC.

17. Additional comments on development:
TEMP WELL BAILED + PUMPED DRY TWICE

Name and Address of Facility Contact /Owner/Responsible Party

First Name: PAT Last Name: McCANN

Facility/Firm: KU RESOURCES, INC

Street: 419 BRECKOE DR

City/State/Zip: GREEN BAY, WI 54302

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature:

Print Name: JASON ARONSON

Firm: TWIN PORTS TESTING, INC

NOTE: See instructions for more information including a list of county codes and well type codes.

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name <u>KOPPERS INC</u>	County Name <u>DOUGLAS</u>	Well Name <u>TW-2</u>
Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number
		DNR Well ID Number

1. Can this well be purged dry? Yes No

2. Well development method
- surged with bailer and bailed 41
 - surged with bailer and pumped 61
 - surged with block and bailed 42
 - surged with block and pumped 62
 - surged with block, bailed and pumped 70
 - compressed air 20
 - bailed only 10
 - pumped only 51
 - pumped slowly 50
 - Other

3. Time spent developing well 15 min.

4. Depth of well (from top of well casing) 9.7 ft.

5. Inside diameter of well 1.38 in.

6. Volume of water in filter pack and well casing 0.5 gal.

7. Volume of water removed from well 0.5 gal.

8. Volume of water added (if any) _____ gal.

9. Source of water added _____

10. Analysis performed on water added? Yes No
(If yes, attach results)

17. Additional comments on development:

TEMPORARY WELL BAILED & PUMPED DRY TWICE

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>3.36</u> ft.	<u>3.16</u> ft.
Date	b. <u>11/27/2006</u> m m d d y y y y	<u>11/28/2006</u> m m d d y y y y
Time	c. <u>1:07</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.	<u>9:53</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.
12. Sediment in well bottom	<u>0.0</u> inches	<u>0.9</u> inches
13. Water clarity	Clear <input checked="" type="checkbox"/> 10 Turbid <input type="checkbox"/> 15 (Describe)	Clear <input checked="" type="checkbox"/> 20 Turbid <input type="checkbox"/> 25 (Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended _____ mg/l _____ mg/l
solids

15. COD _____ mg/l _____ mg/l

16. Well developed by: Name (first, last) and Firm
First Name: JASON Last Name: ARONSON
Firm: TWIN PORTS TESTING

Name and Address of Facility Contact /Owner/Responsible Party

First Name: PAT Last Name: McCARNEY

Facility/Firm: KU Resources, Inc

Street: 419 BRESCOE DR

City/State/Zip: GREEN BAY, WI 54302

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: [Signature]

Print Name: JASON ARONSON

Firm: TWIN PORTS TESTING

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Route to:

Drinking Water Watershed/Wastewater Waste Management Remediation/Redevelopment Other: _____

1. General Information

WI Unique Well No. _____ DNR Well ID No. _____ County DOUGLAS

Common Well Name TW-1 Gov't Lot # (if applicable) _____

1/4 1/4 Section Township Range E W
N

Well Location ft. / M (Local Grid) Datum _____
N / S E / W

WTM- UTM- Latitude/Longitude- State Plane- S C N Zone

Local Grid Origin ft. / M Datum _____
N, E / W

WTM- UTM- Latitude/Longitude- State Plane- S C N Zone

Reason For Abandonment WATER SAMPLE WI Unique Well No. of Replacement Well _____

3. Well / Drillhole / Borehole Information

TEMPORARY Monitoring Well Original Construction Date Nov 27, 2006
 Water Well
 Borehole / Drillhole If a Well Construction Report is available, please attach.

Construction Type:
 Drilled Driven (Sandpoint) Dug
 Other (specify): HAND AUGER

Formation Type:
 Unconsolidated Formation Bedrock

Total Well Depth From Groundsurface (ft.) 8.5' Casing Diameter (in.) 1"

Lower Drillhole Diameter (in.) _____ Casing Depth (ft.) 8.5'

Was well annular space grouted? Yes No Unknown

If yes, to what depth (feet)? _____ Depth to Water (feet) 3.82

5. Material Used To Fill Well / Drillhole

HOPE PLUG BENTONITE

2. Facility / Owner Information

Facility Name KOPPERS INC

Facility ID _____ License/Permit/Monitoring No. _____

Street Address of Well _____

City, Village or Town SUPERIOR

Present Well Owner KOPPERS, INC Original Well Owner _____

Street Address or Route of Present Owner _____

City SUPERIOR State WI ZIP Code _____

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed? Yes No N/A
 Liner(s) removed? Yes No N/A
 Screen removed? Yes No N/A
 Casing left in place? Yes No N/A
 Was casing cut off below surface? Yes No N/A
 Did sealing material rise to surface? Yes No N/A
 Did material settle after 24 hours? Yes No N/A
 If yes, was hole retopped? Yes No N/A
 If bentonite chips were used, were they hydrated with water from a known safe source? Yes No N/A

Required Method of Placing Sealing Material
 Conductor Pipe-Gravity Conductor Pipe-Pumped
 Screened & Poured (Bentonite Chips) Other (Explain): _____

Sealing Materials
 Neat Cement Grout Clay-Sand Slurry (11 lb./gal. wt.)
 Sand-Cement (Concrete) Grout Bentonite-Sand Slurry " "
 Concrete Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
 Bentonite Chips Bentonite - Cement Grout
 Granular Bentonite Bentonite - Sand Slurry

7. Supervision of Work

Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Sealing Work <u>KU RE SOURCES, INC</u>		Date of Abandonment <u>12/12/06</u>		Date Received	Noted By
Street or Route <u>419 BRETCOE DRIVE</u>		Telephone Number <u>(920) 227-8212</u>		Comments	
City <u>GREEN BAY, WI</u>	State <u>WI</u>	ZIP Code <u>54302</u>	Signature of Person Doing Work <u>Pat McCann</u>	Date Signed <u>12/12/06</u>	

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Route to:

Drinking Water Watershed/Wastewater Waste Management Remediation/Redevelopment Other: _____

1. General Information **2. Facility / Owner Information**

WI Unique Well No. _____		DNR Well ID No. _____		County Douglas		Facility Name KOPPERS, INC	
Common Well Name TW-2		Gov't Lot # (if applicable) _____		Facility ID _____		License/Permit/Monitoring No. _____	
1/4	1/4	Section	Township	Range	<input type="checkbox"/> E <input type="checkbox"/> W	Street Address of Well _____	
Well Location ft./M (Local Grid <input type="checkbox"/>)		Datum		City, Village or Town SUPERIOR		Present Well Owner KOPPERS, INC	
WTM- <input type="checkbox"/> UTM- <input type="checkbox"/> Latitude/Longitude- <input type="checkbox"/> State Plane- <input type="checkbox"/> <input type="checkbox"/> S <input type="checkbox"/> C <input type="checkbox"/> N		Zone		Original Well Owner _____		Street Address or Route of Present Owner _____	
Local Grid Origin ft./M		Datum		City _____		State _____	ZIP Code _____
WTM- <input type="checkbox"/> UTM- <input type="checkbox"/> Latitude/Longitude- <input type="checkbox"/> State Plane- <input type="checkbox"/> <input type="checkbox"/> S <input type="checkbox"/> C <input type="checkbox"/> N		Zone					

Reason For Abandonment **4. Pump, Liner, Screen, Casing & Sealing Material**

Reason For Abandonment WATER SAMPLE		WI Unique Well No. of Replacement Well _____		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
3. Well / Drillhole / Borehole Information		Original Construction Date Nov 28, 2006		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
<input checked="" type="checkbox"/> TEMPORARY Monitoring Well		If a Well Construction Report is available, please attach.		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<input type="checkbox"/> Water Well				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
<input type="checkbox"/> Borehole / Drillhole				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Construction Type:		Did sealing material rise to surface?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
<input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug		Did material settle after 24 hours?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
<input checked="" type="checkbox"/> Other (specify): HAND AUGER		If yes, was hole retopped?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Formation Type:		If bentonite chips were used, were they hydrated with water from a known safe source?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		Required Method of Placing Sealing Material		<input checked="" type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped	
Total Well Depth From Groundsurface (ft.) 8.5'		Casing Diameter (in.) 1"		<input type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain): _____	
Lower Drillhole Diameter (in.) _____		Casing Depth (ft.) 8.5'		Sealing Materials	
Was well annular space grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown		For Monitoring Wells and Monitoring Well Boreholes Only:		<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)	
If yes, to what depth (feet)? _____		Depth to Water (feet) 3.42'		<input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Bentonite-Sand Slurry " "	
				<input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Bentonite Chips	

5. Material Used To Fill Well / Drillhole

From (ft.)	To (ft.)	No. Yards, (Sacks Sealant) or Volume (circle one)	Mix Ratio or Mud Weight
Surface	8.5	1/2 BAG	

6. Comments

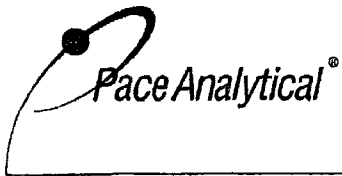
None PLUG BENTONITE

7. Supervision of Work **DNR Use Only**

Name of Person or Firm Doing Sealing Work KU Resources, INC		Date of Abandonment 12/12/06		Date Received _____		Noted By _____	
Street or Route 419 BRETCHER DRIVE		Telephone Number (920) 277-8212		Comments _____			
City GREEN BAY	State WI	ZIP Code 54302	Signature of Person Doing Work Kat McCaughey		Date Signed 12/12/06		

Attachment 3
Laboratory Analytical Data Soil





1241 Bellevue Street, Suite 9
Green Bay, WI 54302
920-469-2436, Fax: 920-469-8827

Analytical Report Number: 878713

Client: KU RESOURCES


Lab Contact: Eric Bullock

Project Name: KOPPERS

Project Number: KI.06303SDPC.P

Lab Sample Number	Field ID	Matrix	Collection Date
878713-001	S-1 0-6IN	SOIL	11/20/06 11:45
878713-002	S-2 0-6IN	SOIL	11/20/06 12:15
878713-003	S-3 0-6IN	SOIL	11/20/06 12:40
878713-004	S-4 0-6IN	SOIL	11/20/06 12:55
878713-005	S-5 0-6IN	SOIL	11/20/06 13:20
878713-006	S-6 0-6IN	SOIL	11/20/06 13:45
878713-007	DUP 0-6IN	SOIL	11/20/06
878713-008	TRIP BLANK	METH	11/20/06

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample comments. Release of this final report is authorized by Laboratory management, as is verified by the following signature. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc. The sample results relate only to the analytes of interest tested.


Approval Signature

12/15/06
Date

**Pace Analytical
Services, Inc.**

Analytical Report Number: 878713

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : KU RESOURCES
Project Name : KOPPERS
Project Number : KI.06303SDPC.P
Field ID : S-1 0-6IN

Matrix Type : SOIL
Collection Date : 11/20/06
Report Date : 12/13/06
Lab Sample Number : 878713-001

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Arsenic	2.0	0.88	2.9		1	mg/Kg	Q	11/28/06	SW846 3050B	SW846 6010B
Chromium	42	0.16	0.52		1	mg/Kg		11/28/06	SW846 3050B	SW846 6010B
Copper	78	0.16	0.54		1	mg/Kg	N	11/28/06	SW846 3050B	SW846 6010B
Percent Solids	95.5				1	%		11/24/06	SM M2540G	SM M2540G

VOLATILES

Prep Date: 11/27/06

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,1,1,2-Tetrachloroethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,1,1-Trichloroethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,1-Dichloroethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,1-Dichloroethene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,1-Dichloropropene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,2,3-Trichloropropane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	< 82	82	200		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,2-Dibromoethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	< 44	44	110		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,2-Dichloroethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,2-Dichloropropane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,3-Dichloropropane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
2,2-Dichloropropane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
2-Chlorotoluene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
4-Chlorotoluene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Benzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Bromobenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Bromochloromethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Bromodichloromethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Bromoform	< 28	26	62		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Bromomethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Carbon Tetrachloride	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Chlorobenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Chlorodibromomethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Chloroethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Chloroform	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Chloromethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
cis-1,2-Dichloroethene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
cis-1,3-Dichloropropene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Dibromomethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Diisopropyl Ether	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Ethylbenzene	2100	26	63		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B

All soil results are reported on a dry weight basis unless otherwise noted.

**Pace Analytical
Services, Inc.**

Analytical Report Number: 878713

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : KU RESOURCES
Project Name : KOPPERS
Project Number : KI.06303SDPC.P
Field ID : S-1 0-6IN

Matrix Type : SOIL
Collection Date : 11/20/06
Report Date : 12/13/06
Lab Sample Number : 878713-001

VOLATILES

Prep Date: 11/27/06

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Fluorotrichloromethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Hexachlorobutadiene	< 26	26	63		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Isopropylbenzene	33	26	63		50	ug/Kg	Q	11/27/06	SW846 5030B	SW846 8260B
Methylene Chloride	50	26	63		50	ug/Kg	QB	11/27/06	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Naphthalene	52	26	63		50	ug/Kg	Q	11/27/06	SW846 5030B	SW846 8260B
n-Butylbenzene	< 40	40	97		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
n-Propylbenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
p-Isopropyltoluene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
s-Butylbenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Styrene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
t-Butylbenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Tetrachloroethene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Toluene	27	26	63		50	ug/Kg	Q	11/27/06	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
trans-1,3-Dichloropropene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Trichloroethene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Vinyl Chloride	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Xylene, m + p	9100	52	130		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Xylene, o	2600	26	63		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Surrogate		LCL	UCL							
4-Bromofluorobenzene	100	64	133		50	%		11/27/06	SW846 5030B	SW846 8260B
Toluene-d8	108	67	139		50	%		11/27/06	SW846 5030B	SW846 8260B
Dibromofluoromethane	107	64	140		50	%		11/27/06	SW846 5030B	SW846 8260B

PAH/PNA

Prep Date: 11/27/06

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene	20	6.3	21		2	ug/Kg	Q	11/28/06	SW846 3545	8270C-SIM
2-Methylnaphthalene	41	6.5	22		2	ug/Kg		11/28/06	SW846 3545	8270C-SIM
Acenaphthene	62	6.2	21		2	ug/Kg		11/28/06	SW846 3545	8270C-SIM
Acenaphthylene	990	6.0	20		2	ug/Kg		11/28/06	SW846 3545	8270C-SIM
Anthracene	2100	7.5	25		2	ug/Kg		11/28/06	SW846 3545	8270C-SIM
Benzo(a)anthracene	330	11	37		2	ug/Kg		11/28/06	SW846 3545	8270C-SIM
Benzo(a)pyrene	510	6.0	20		2	ug/Kg		11/28/06	SW846 3545	8270C-SIM
Benzo(b)fluoranthene	1100	5.9	20		2	ug/Kg		11/28/06	SW846 3545	8270C-SIM
Benzo(ghi)perylene	750	7.4	25		2	ug/Kg		11/28/06	SW846 3545	8270C-SIM
Benzo(k)fluoranthene	720	6.4	21		2	ug/Kg		11/28/06	SW846 3545	8270C-SIM
Chrysene	650	9.1	30		2	ug/Kg		11/28/06	SW846 3545	8270C-SIM
Dibenz(a,h)anthracene	120	5.8	19		2	ug/Kg		11/28/06	SW846 3545	8270C-SIM
Fluoranthene	830	6.0	20		2	ug/Kg		11/28/06	SW846 3545	8270C-SIM
Fluorene	73	7.1	24		2	ug/Kg		11/28/06	SW846 3545	8270C-SIM
Indeno(1,2,3-cd)pyrene	350	5.3	18		2	ug/Kg		11/28/06	SW846 3545	8270C-SIM
Naphthalene	55	8.4	28		2	ug/Kg		11/28/06	SW846 3545	8270C-SIM
Phenanthrene	330	6.2	21		2	ug/Kg		11/28/06	SW846 3545	8270C-SIM
Pyrene	1100	5.1	17		2	ug/Kg		11/28/06	SW846 3545	8270C-SIM

All soil results are reported on a dry weight basis unless otherwise noted.

**Pace Analytical
Services, Inc.**

Analytical Report Number: 878713

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : KU RESOURCES
Project Name : KOPPERS
Project Number : KI.06303SDPC.P
Field ID : S-1 0-6IN

Matrix Type : SOIL
Collection Date : 11/20/06
Report Date : 12/13/06
Lab Sample Number : 878713-001

PAH/PNA

Prep Date: 11/27/06

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Surrogate		LCL	UCL							
Nitrobenzene-d5	65	10	141		2	%		11/28/06	SW846 3545	8270C-SIM
2-Fluorobiphenyl	69	10	161		2	%		11/28/06	SW846 3545	8270C-SIM
Terphenyl-d14	78	29	150		2	%		11/28/06	SW846 3545	8270C-SIM

SEMIVOLATILES - SPECIAL LIST

Prep Date: 11/27/06

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Surrogate		LCL	UCL							
Pentachlorophenol	< 86	86	290		1	ug/Kg		11/27/06	SW846 3545	SW846 8270C
2,4,6-Tribromophenol	77	21	128		1	%		11/27/06	SW846 3545	SW846 8270C

**Pace Analytical
Services, Inc.**

Analytical Report Number: 878713

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : KU RESOURCES
Project Name : KOPPERS
Project Number : KI.06303SDPC.P
Field ID : S-2 0-6IN

Matrix Type : SOIL
Collection Date : 11/20/06
Report Date : 12/13/06
Lab Sample Number : 878713-002

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Arsenic	2.4	0.87	2.9		1	mg/Kg	Q	11/28/06	SW846 3050B	SW846 6010B
Chromium	55	0.16	0.52		1	mg/Kg		11/28/06	SW846 3050B	SW846 6010B
Copper	110	0.16	0.54		1	mg/Kg		11/28/06	SW846 3050B	SW846 6010B
Percent Solids	96.2				1	%		11/24/06	SM M2540G	SM M2540G

VOLATILES

Prep Date: 11/27/06

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,1,1,2-Tetrachloroethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,1,1-Trichloroethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,1-Dichloroethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,1-Dichloroethene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,1-Dichloropropene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,2,3-Trichloropropane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	< 82	82	200		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,2-Dibromoethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	< 44	44	110		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,2-Dichloroethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,2-Dichloropropane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,3-Dichloropropane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
2,2-Dichloropropane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
2-Chlorotoluene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
4-Chlorotoluene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Benzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Bromobenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Bromochloromethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Bromodichloromethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Bromoform	< 26	26	62		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Bromomethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Carbon Tetrachloride	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Chlorobenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Chlorodibromomethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Chloroethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Chloroform	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Chloromethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
cis-1,2-Dichloroethene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
cis-1,3-Dichloropropene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Dibromomethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Diisopropyl Ether	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Ethylbenzene	34	26	62		50	ug/Kg	Q	11/27/06	SW846 5030B	SW846 8260B

All soil results are reported on a dry weight basis unless otherwise noted.

**Pace Analytical
Services, Inc.**

Analytical Report Number: 878713

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : KU RESOURCES
Project Name : KOPPERS
Project Number : KI.06303SDPC.P
Field ID : S-2 0-6IN

Matrix Type : SOIL
Collection Date : 11/20/06
Report Date : 12/13/06
Lab Sample Number : 878713-002

VOLATILES

Prep Date: 11/27/06

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Fluorotrichloromethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Hexachlorobutadiene	< 26	26	63		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Isopropylbenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Methylene Chloride	45	26	62		50	ug/Kg	QB	11/27/06	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Naphthalene	26	26	62		50	ug/Kg	Q	11/27/06	SW846 5030B	SW846 8260B
n-Butylbenzene	< 40	40	97		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
n-Propylbenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
p-Isopropyltoluene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
s-Butylbenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Styrene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
t-Butylbenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Tetrachloroethene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Toluene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
trans-1,3-Dichloropropene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Trichloroethene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Vinyl Chloride	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Xylene, m + p	140	52	120		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Xylene, o	49	26	62		50	ug/Kg	Q	11/27/06	SW846 5030B	SW846 8260B
Surrogate		LCL	UCL							
4-Bromofluorobenzene	105	64	133		50	%		11/27/06	SW846 5030B	SW846 8260B
Toluene-d8	116	67	139		50	%		11/27/06	SW846 5030B	SW846 8260B
Dibromofluoromethane	116	64	140		50	%		11/27/06	SW846 5030B	SW846 8260B

PAH/PNA

Prep Date: 11/27/06

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene	15	6.3	21		2	ug/Kg	Q	11/28/06	SW846 3545	8270C-SIM
2-Methylnaphthalene	30	6.5	22		2	ug/Kg		11/28/06	SW846 3545	8270C-SIM
Acenaphthene	32	6.2	21		2	ug/Kg		11/28/06	SW846 3545	8270C-SIM
Acenaphthylene	820	6.0	20		2	ug/Kg		11/28/06	SW846 3545	8270C-SIM
Anthracene	1500	7.4	25		2	ug/Kg		11/28/06	SW846 3545	8270C-SIM
Benzo(a)anthracene	240	11	37		2	ug/Kg		11/28/06	SW846 3545	8270C-SIM
Benzo(a)pyrene	240	6.0	20		2	ug/Kg		11/28/06	SW846 3545	8270C-SIM
Benzo(b)fluoranthene	530	5.8	19		2	ug/Kg		11/28/06	SW846 3545	8270C-SIM
Benzo(ghi)perylene	980	7.4	25		2	ug/Kg		11/28/06	SW846 3545	8270C-SIM
Benzo(k)fluoranthene	350	6.4	21		2	ug/Kg		11/28/06	SW846 3545	8270C-SIM
Chrysene	410	9.1	30		2	ug/Kg		11/28/06	SW846 3545	8270C-SIM
Dibenz(a,h)anthracene	90	5.7	19		2	ug/Kg		11/28/06	SW846 3545	8270C-SIM
Fluoranthene	380	6.0	20		2	ug/Kg		11/28/06	SW846 3545	8270C-SIM
Fluorene	37	7.1	24		2	ug/Kg		11/28/06	SW846 3545	8270C-SIM
Indeno(1,2,3-cd)pyrene	320	5.2	17		2	ug/Kg		11/28/06	SW846 3545	8270C-SIM
Naphthalene	57	8.3	28		2	ug/Kg		11/28/06	SW846 3545	8270C-SIM
Phenanthrene	170	6.1	20		2	ug/Kg		11/28/06	SW846 3545	8270C-SIM
Pyrene	510	5.1	17		2	ug/Kg		11/28/06	SW846 3545	8270C-SIM

All soil results are reported on a dry weight basis unless otherwise noted.

**Pace Analytical
Services, Inc.**

Analytical Report Number: 878713

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : KU RESOURCES
Project Name : KOPPERS
Project Number : KI.06303SDPC.P
Field ID : S-2 0-6IN

Matrix Type : SOIL
Collection Date : 11/20/06
Report Date : 12/13/06
Lab Sample Number : 878713-002

PAH/PNA											Prep Date: 11/27/06
Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method	
Surrogate		LCL	UCL								
Nitrobenzene-d5	70	10	141		2	%		11/28/06	SW846 3545	8270C-SIM	
2-Fluorobiphenyl	72	10	161		2	%		11/28/06	SW846 3545	8270C-SIM	
Terphenyl-d14	77	29	150		2	%		11/28/06	SW846 3545	8270C-SIM	

SEMIVOLATILES - SPECIAL LIST											Prep Date: 11/27/06
Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method	
Pentachlorophenol	< 85	85	280		1	ug/Kg		11/27/06	SW846 3545	SW846 8270C	
Surrogate		LCL	UCL								
2,4,6-Tribromophenol	81	21	128		1	%		11/27/06	SW846 3545	SW846 8270C	

DIOXINS - TETRA-OCTA											Prep Date:
Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method	
Dioxins - Tetra - Octa	INCL.										

All soil results are reported on a dry weight basis unless otherwise noted.

**Pace Analytical
Services, Inc.**

Analytical Report Number: 878713

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : KU RESOURCES
Project Name : KOPPERS
Project Number : KI.06303SDPC.P
Field ID : S-3 0-6IN

Matrix Type : SOIL
Collection Date : 11/20/06
Report Date : 12/13/06
Lab Sample Number : 878713-003

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Arsenic	2.1	0.92	3.1		1	mg/Kg	Q	11/28/06	SW846 3050B	SW846 6010B
Chromium	24	0.16	0.55		1	mg/Kg		11/28/06	SW846 3050B	SW846 6010B
Copper	35	0.17	0.57		1	mg/Kg		11/28/06	SW846 3050B	SW846 6010B
Percent Solids	91.0				1	%		11/24/06	SM M2540G	SM M2540G

VOLATILES

Prep Date: 11/27/06

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,1,1,2-Tetrachloroethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,1,1-Trichloroethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,1-Dichloroethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,1-Dichloroethene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,1-Dichloropropene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,2,3-Trichloropropane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	44	27	66		50	ug/Kg	Q	11/27/06	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	< 82	82	200		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,2-Dibromoethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	< 44	44	110		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,2-Dichloroethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,2-Dichloropropane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,3-Dichloropropane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
2,2-Dichloropropane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
2-Chlorotoluene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
4-Chlorotoluene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Benzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Bromobenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Bromochloromethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Bromodichloromethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Bromoform	< 26	26	62		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Bromomethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Carbon Tetrachloride	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Chlorobenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Chlorodibromomethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Chloroethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Chloroform	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Chloromethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
cis-1,2-Dichloroethene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
cis-1,3-Dichloropropene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Dibromomethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Diisopropyl Ether	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Ethylbenzene	680	27	66		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B

All soil results are reported on a dry weight basis unless otherwise noted.

**Pace Analytical
Services, Inc.**

Analytical Report Number: 878713

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : KU RESOURCES
Project Name : KOPPERS
Project Number : KI.06303SDPC.P
Field ID : S-3 0-6IN

Matrix Type : SOIL
Collection Date : 11/20/06
Report Date : 12/13/06
Lab Sample Number : 878713-003

VOLATILES

Prep Date: 11/27/06

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Fluorotrichloromethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Hexachlorobutadiene	< 26	26	63		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Isopropylbenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Methylene Chloride	44	27	66		50	ug/Kg	QB	11/27/06	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Naphthalene	290	27	66		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
n-Butylbenzene	< 40	40	97		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
n-Propylbenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
p-Isopropyltoluene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
s-Butylbenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Styrene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
t-Butylbenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Tetrachloroethene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Toluene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
trans-1,3-Dichloropropene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Trichloroethene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Vinyl Chloride	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Xylene, m + p	2400	55	130		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Xylene, o	610	27	66		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Surrogate		LCL	UCL							
4-Bromofluorobenzene	101	64	133		50	%		11/27/06	SW846 5030B	SW846 8260B
Toluene-d8	110	67	139		50	%		11/27/06	SW846 5030B	SW846 8260B
Dibromofluoromethane	113	64	140		50	%		11/27/06	SW846 5030B	SW846 8260B

PAH/PNA

Prep Date: 11/27/06

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene	620	67	220		20	ug/Kg		11/28/06	SW846 3545	8270C-SIM
2-Methylnaphthalene	1500	69	230		20	ug/Kg		11/28/06	SW846 3545	8270C-SIM
Acenaphthene	680	65	220		20	ug/Kg		11/28/06	SW846 3545	8270C-SIM
Acenaphthylene	1400	63	210		20	ug/Kg		11/28/06	SW846 3545	8270C-SIM
Anthracene	3500	78	260		20	ug/Kg		11/28/06	SW846 3545	8270C-SIM
Benzo(a)anthracene	1600	120	390		20	ug/Kg		11/28/06	SW846 3545	8270C-SIM
Benzo(a)pyrene	1600	63	210		20	ug/Kg		11/28/06	SW846 3545	8270C-SIM
Benzo(b)fluoranthene	2600	62	210		20	ug/Kg		11/28/06	SW846 3545	8270C-SIM
Benzo(ghi)perylene	2600	78	260		20	ug/Kg		11/28/06	SW846 3545	8270C-SIM
Benzo(k)fluoranthene	1500	67	220		20	ug/Kg		11/28/06	SW846 3545	8270C-SIM
Chrysene	2600	96	320		20	ug/Kg		11/28/06	SW846 3545	8270C-SIM
Dibenz(a,h)anthracene	480	61	200		20	ug/Kg		11/28/06	SW846 3545	8270C-SIM
Fluoranthene	5300	63	210		20	ug/Kg		11/28/06	SW846 3545	8270C-SIM
Fluorene	1600	75	250		20	ug/Kg		11/28/06	SW846 3545	8270C-SIM
Indeno(1,2,3-cd)pyrene	1400	55	180		20	ug/Kg		11/28/06	SW846 3545	8270C-SIM
Naphthalene	5100	88	290		20	ug/Kg		11/28/06	SW846 3545	8270C-SIM
Phenanthrene	4900	65	220		20	ug/Kg		11/28/06	SW846 3545	8270C-SIM
Pyrene	4300	54	180		20	ug/Kg		11/28/06	SW846 3545	8270C-SIM

All soil results are reported on a dry weight basis unless otherwise noted.

**Pace Analytical
Services, Inc.**

Analytical Report Number: 878713

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : KU RESOURCES
Project Name : KOPPERS
Project Number : KI.06303SDPC.P
Field ID : S-3 0-6IN

Matrix Type : SOIL
Collection Date : 11/20/06
Report Date : 12/13/06
Lab Sample Number : 878713-003

PAH/PNA

Prep Date: 11/27/06

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Surrogate		LCL	UCL							
Nitrobenzene-d5	27	10	141		20	%		11/28/06	SW846 3545	8270C-SIM
2-Fluorobiphenyl	70	10	161		20	%		11/28/06	SW846 3545	8270C-SIM
Terphenyl-d14	74	29	150		20	%		11/28/06	SW846 3545	8270C-SIM

SEMIVOLATILES - SPECIAL LIST

Prep Date: 11/27/06

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Surrogate		LCL	UCL							
Pentachlorophenol	< 180	180	600		2	ug/Kg	K	11/28/06	SW846 3545	SW846 8270C
2,4,6-Tribromophenol	83	21	128		2	%	K	11/28/06	SW846 3545	SW846 8270C

DIOXINS - TETRA-OCTA

Prep Date:

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Dioxins - Tetra - Octa	INCL.									

**Pace Analytical
Services, Inc.**

Analytical Report Number: 878713

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : KU RESOURCES
Project Name : KOPPERS
Project Number : KI.06303SDPC.P
Field ID : S-4 0-6IN

Matrix Type : SOIL
Collection Date : 11/20/06
Report Date : 12/13/06
Lab Sample Number : 878713-004

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Arsenic	3.5	1.0	3.5		1	mg/Kg		11/28/06	SW846 3050B	SW846 6010B
Chromium	46	0.19	0.62		1	mg/Kg		11/28/06	SW846 3050B	SW846 6010B
Copper	65	0.19	0.64		1	mg/Kg		11/28/06	SW846 3050B	SW846 6010B
Percent Solids	80.9				1	%		11/24/06	SM M2540G	SM M2540G

VOLATILES

Prep Date: 11/27/06

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,1,1,2-Tetrachloroethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,1,1-Trichloroethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,1-Dichloroethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,1-Dichloroethene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,1-Dichloropropene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,2,3-Trichloropropane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	< 82	82	200		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,2-Dibromoethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	< 44	44	110		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,2-Dichloroethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,2-Dichloropropane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,3-Dichloropropane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
2,2-Dichloropropane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
2-Chlorotoluene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
4-Chlorotoluene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Benzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Bromobenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Bromochloromethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Bromodichloromethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Bromoform	< 26	26	62		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Bromomethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Carbon Tetrachloride	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Chlorobenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Chlorodibromomethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Chloroethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Chloroform	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Chloromethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
cis-1,2-Dichloroethene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
cis-1,3-Dichloropropene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Dibromomethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Dilsopropyl Ether	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Ethylbenzene	1400	31	74		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B

All soil results are reported on a dry weight basis unless otherwise noted.

**Pace Analytical
Services, Inc.**

Analytical Report Number: 878713

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : KU RESOURCES
Project Name : KOPPERS
Project Number : KI.06303SDPC.P
Field ID : S-4 0-6IN

Matrix Type : SOIL
Collection Date : 11/20/06
Report Date : 12/13/06
Lab Sample Number : 878713-004

VOLATILES

Prep Date: 11/27/06

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Fluorotrichloromethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Hexachlorobutadiene	< 26	26	63		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Isopropylbenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Methylene Chloride	46	31	74		50	ug/Kg	QB	11/27/06	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Naphthalene	90	31	74		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
n-Butylbenzene	< 40	40	97		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
n-Propylbenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
p-Isopropyltoluene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
s-Butylbenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Styrene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
t-Butylbenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Tetrachloroethene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Toluene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
trans-1,3-Dichloropropene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Trichloroethene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Vinyl Chloride	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Xylene, m + p	4500	62	150		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Xylene, o	1000	31	74		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Surrogate		LCL	UCL							
4-Bromofluorobenzene	97	64	133		50	%		11/27/06	SW846 5030B	SW846 8260B
Toluene-d8	105	67	139		50	%		11/27/06	SW846 5030B	SW846 8260B
Dibromofluoromethane	106	64	140		50	%		11/27/06	SW846 5030B	SW846 8260B

PAH/PNA

Prep Date: 11/27/06

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene	< 37	37	120		10	ug/Kg		11/28/06	SW846 3545	8270C-SIM
2-Methylnaphthalene	< 39	39	130		10	ug/Kg		11/28/06	SW846 3545	8270C-SIM
Acenaphthene	100	37	120		10	ug/Kg	Q	11/28/06	SW846 3545	8270C-SIM
Acenaphthylene	1400	36	120		10	ug/Kg		11/28/06	SW846 3545	8270C-SIM
Anthracene	2600	44	150		10	ug/Kg		11/28/06	SW846 3545	8270C-SIM
Benzo(a)anthracene	760	66	220		10	ug/Kg		11/28/06	SW846 3545	8270C-SIM
Benzo(a)pyrene	1400	35	120		10	ug/Kg		11/28/06	SW846 3545	8270C-SIM
Benzo(b)fluoranthene	2000	35	120		10	ug/Kg		11/28/06	SW846 3545	8270C-SIM
Benzo(ghi)perylene	1500	44	150		10	ug/Kg		11/28/06	SW846 3545	8270C-SIM
Benzo(k)fluoranthene	1300	38	130		10	ug/Kg		11/28/06	SW846 3545	8270C-SIM
Chrysene	1700	54	180		10	ug/Kg		11/28/06	SW846 3545	8270C-SIM
Dibenz(a,h)anthracene	350	34	110		10	ug/Kg		11/28/06	SW846 3545	8270C-SIM
Fluoranthene	2000	36	120		10	ug/Kg		11/28/06	SW846 3545	8270C-SIM
Fluorene	160	42	140		10	ug/Kg		11/28/06	SW846 3545	8270C-SIM
Indeno(1,2,3-cd)pyrene	910	31	100		10	ug/Kg		11/28/06	SW846 3545	8270C-SIM
Naphthalene	< 50	50	170		10	ug/Kg		11/28/06	SW846 3545	8270C-SIM
Phenanthrene	530	36	120		10	ug/Kg		11/28/06	SW846 3545	8270C-SIM
Pyrene	4500	30	100		10	ug/Kg		11/28/06	SW846 3545	8270C-SIM

All soil results are reported on a dry weight basis unless otherwise noted.

**Pace Analytical
Services, Inc.**

Analytical Report Number: 878713

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : KU RESOURCES
Project Name : KOPPERS
Project Number : KI.06303SDPC.P
Field ID : S-4 0-6IN

Matrix Type : SOIL
Collection Date : 11/20/06
Report Date : 12/13/06
Lab Sample Number : 878713-004

PAH/PNA

Prep Date: 11/27/06

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Surrogate		LCL	UCL							
Nitrobenzene-d5	54	10	141		10	%		11/28/06	SW846 3545	8270C-SIM
2-Fluorobiphenyl	63	10	161		10	%		11/28/06	SW846 3545	8270C-SIM
Terphenyl-d14	63	29	150		10	%		11/28/06	SW846 3545	8270C-SIM

SEMIVOLATILES - SPECIAL LIST

Prep Date: 11/27/06

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Pentachlorophenol	< 200	200	680		2	ug/Kg	K	11/27/06	SW846 3545	SW846 8270C
Surrogate		LCL	UCL							
2,4,6-Tribromophenol	90	21	128		2	%	K	11/27/06	SW846 3545	SW846 8270C

All soil results are reported on a dry weight basis unless otherwise noted.

**Pace Analytical
Services, Inc.**

Analytical Report Number: 878713

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : KU RESOURCES

Project Name : KOPPERS

Project Number : KI.06303SDPC.P

Field ID : S-5 0-6IN

Matrix Type : SOIL

Collection Date : 11/20/06

Report Date : 12/13/06

Lab Sample Number : 878713-005

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Arsenic	1.6	0.86	2.9		1	mg/Kg	Q	11/28/06	SW846 3050B	SW846 6010B
Chromium	64	0.15	0.51		1	mg/Kg		11/28/06	SW846 3050B	SW846 6010B
Copper	120	0.16	0.53		1	mg/Kg		11/28/06	SW846 3050B	SW846 6010B
Percent Solids	97.6				1	%		11/24/06	SM M2540G	SM M2540G

VOLATILES

Prep Date: 11/27/06

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,1,1,2-Tetrachloroethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,1,1-Trichloroethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,1-Dichloroethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,1-Dichloroethene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,1-Dichloropropene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,2,3-Trichloropropane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	< 82	82	200		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,2-Dibromoethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	< 44	44	110		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,2-Dichloroethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,2-Dichloropropane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,3-Dichloropropane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
2,2-Dichloropropane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
2-Chlorotoluene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
4-Chlorotoluene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Benzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Bromobenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Bromochloromethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Bromodichloromethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Bromoform	< 26	26	62		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Bromomethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Carbon Tetrachloride	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Chlorobenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Chlorodibromomethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Chloroethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Chloroform	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Chloromethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
cis-1,2-Dichloroethene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
cis-1,3-Dichloropropene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Dibromomethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Diisopropyl Ether	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Ethylbenzene	790	26	62		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B

All soil results are reported on a dry weight basis unless otherwise noted.

Pace Analytical Services, Inc.

Analytical Report Number: 878713

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : KU RESOURCES
Project Name : KOPPERS
Project Number : KI.06303SDPC.P
Field ID : S-5 0-6IN

Matrix Type : SOIL
Collection Date : 11/20/06
Report Date : 12/13/06
Lab Sample Number : 878713-005

VOLATILES

Prep Date: 11/27/06

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Fluorotrichloromethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Hexachlorobutadiene	< 26	26	63		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Isopropylbenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Methylene Chloride	40	26	62		50	ug/Kg	QB	11/27/06	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Naphthalene	49	26	62		50	ug/Kg	Q	11/27/06	SW846 5030B	SW846 8260B
n-Butylbenzene	< 40	40	97		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
n-Propylbenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
p-Isopropyltoluene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
s-Butylbenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Styrene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
t-Butylbenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Tetrachloroethene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Toluene	28	26	62		50	ug/Kg	Q	11/27/06	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
trans-1,3-Dichloropropene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Trichloroethene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Vinyl Chloride	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Xylene, m + p	2500	51	120		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Xylene, o	650	26	62		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Surrogate		LCL	UCL							
4-Bromofluorobenzene	107	64	133		50	%		11/27/06	SW846 5030B	SW846 8260B
Toluene-d8	115	67	139		50	%		11/27/06	SW846 5030B	SW846 8260B
Dibromofluoromethane	116	64	140		50	%		11/27/06	SW846 5030B	SW846 8260B

PAH/PNA

Prep Date: 11/30/06

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene	< 120	120	410		20	ug/Kg		11/30/06	SW846 3545	8270C-SIM
2-Methylnaphthalene	< 130	130	430		20	ug/Kg	*	11/30/06	SW846 3545	8270C-SIM
Acenaphthene	120	120	410		20	ug/Kg	QN	11/30/06	SW846 3545	8270C-SIM
Acenaphthylene	2100	120	390		20	ug/Kg	N*	11/30/06	SW846 3545	8270C-SIM
Anthracene	3500	150	490		20	ug/Kg	N	11/30/06	SW846 3545	8270C-SIM
Benzo(a)anthracene	1600	220	720		20	ug/Kg	N*	11/30/06	SW846 3545	8270C-SIM
Benzo(a)pyrene	3500	120	390		20	ug/Kg	N*	11/30/06	SW846 3545	8270C-SIM
Benzo(b)fluoranthene	5500	120	380		20	ug/Kg	N*	11/30/06	SW846 3545	8270C-SIM
Benzo(ghi)perylene	1700	150	490		20	ug/Kg	N*	11/30/06	SW846 3545	8270C-SIM
Benzo(k)fluoranthene	3900	130	420		20	ug/Kg	N*	11/30/06	SW846 3545	8270C-SIM
Chrysene	5400	180	600		20	ug/Kg	N*	11/30/06	SW846 3545	8270C-SIM
Dibenz(a,h)anthracene	540	110	380		20	ug/Kg	N*	11/30/06	SW846 3545	8270C-SIM
Fluoranthene	2600	120	390		20	ug/Kg	N*	11/30/06	SW846 3545	8270C-SIM
Fluorene	180	140	470		20	ug/Kg	QN	11/30/06	SW846 3545	8270C-SIM
Indeno(1,2,3-cd)pyrene	1400	100	340		20	ug/Kg	N*	11/30/06	SW846 3545	8270C-SIM
Naphthalene	< 160	160	550		20	ug/Kg		11/30/06	SW846 3545	8270C-SIM
Phenanthrene	470	120	400		20	ug/Kg	N	11/30/06	SW846 3545	8270C-SIM
Pyrene	20000	100	340		20	ug/Kg	N*	11/30/06	SW846 3545	8270C-SIM

All soil results are reported on a dry weight basis unless otherwise noted.

**Pace Analytical
Services, Inc.**

Analytical Report Number: 878713

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : KU RESOURCES
Project Name : KOPPERS
Project Number : KI.06303SDPC.P
Field ID : S-5 0-6IN

Matrix Type : SOIL
Collection Date : 11/20/06
Report Date : 12/13/06
Lab Sample Number : 878713-005

PAH/PNA

Prep Date: 11/30/06

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Surrogate		LCL	UCL							
Nitrobenzene-d5	0.0	10	141		20	%	D	11/30/06	SW846 3545	8270C-SIM
2-Fluorobiphenyl	0.0	10	161		20	%	D	11/30/06	SW846 3545	8270C-SIM
Terphenyl-d14	0.0	29	150		20	%	D	11/30/06	SW846 3545	8270C-SIM

SEMIVOLATILES - SPECIAL LIST

Prep Date: 11/27/06

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Surrogate		LCL	UCL							
Pentachlorophenol	< 170	170	560		2	ug/Kg	K	11/28/06	SW846 3545	SW846 8270C
2,4,6-Tribromophenol	104	21	128		2	%	K	11/28/06	SW846 3545	SW846 8270C

**Pace Analytical
Services, Inc.**

Analytical Report Number: 878713

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : KU RESOURCES
Project Name : KOPPERS
Project Number : KI.06303SDPC.P
Field ID : S-6 0-6IN

Matrix Type : SOIL
Collection Date : 11/20/06
Report Date : 12/13/06
Lab Sample Number : 878713-006

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Arsenic	< 0.86	0.86	2.9		1	mg/Kg		11/28/06	SW846 3050B	SW846 6010B
Chromium	2.9	0.15	0.51		1	mg/Kg		11/28/06	SW846 3050B	SW846 6010B
Copper	4.8	0.16	0.53		1	mg/Kg		11/28/06	SW846 3050B	SW846 6010B
Percent Solids	97.6				1	%		11/24/06	SM M2540G	SM M2540G

VOLATILES

Prep Date: 11/27/06

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,1,1,2-Tetrachloroethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,1,1-Trichloroethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,1-Dichloroethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,1-Dichloroethene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,1-Dichloropropene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,2,3-Trichloropropane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	< 82	82	200		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,2-Dibromoethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	< 44	44	110		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,2-Dichloroethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,2-Dichloropropane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,3-Dichloropropane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
2,2-Dichloropropane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
2-Chlorotoluene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
4-Chlorotoluene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Benzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Bromobenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Bromochloromethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Bromodichloromethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Bromoform	< 26	26	62		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Bromomethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Carbon Tetrachloride	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Chlorobenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Chlorodibromomethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Chloroethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Chloroform	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Chloromethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
cis-1,2-Dichloroethene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
cis-1,3-Dichloropropene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Dibromomethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Diisopropyl Ether	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Ethylbenzene	83	26	61		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B

All soil results are reported on a dry weight basis unless otherwise noted.

**Pace Analytical
Services, Inc.**

Analytical Report Number: 878713

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : KU RESOURCES
Project Name : KOPPERS
Project Number : KI.06303SDPC.P
Field ID : S-6 0-6IN

Matrix Type : SOIL
Collection Date : 11/20/06
Report Date : 12/13/06
Lab Sample Number : 878713-006

VOLATILES

Prep Date: 11/27/06

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Fluorotrichloromethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Hexachlorobutadiene	< 26	26	63		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Isopropylbenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Methylene Chloride	46	26	61		50	ug/Kg	QB	11/27/06	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Naphthalene	42	26	61		50	ug/Kg	Q	11/27/06	SW846 5030B	SW846 8260B
n-Butylbenzene	< 40	40	97		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
n-Propylbenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
p-Isopropyltoluene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
s-Butylbenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Styrene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
t-Butylbenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Tetrachloroethene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Toluene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
trans-1,3-Dichloropropene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Trichloroethene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Vinyl Chloride	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Xylene, m + p	360	51	120		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Xylene, o	120	26	61		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Surrogate		LCL	UCL							
4-Bromofluorobenzene	100	64	133		50	%		11/27/06	SW846 5030B	SW846 8260B
Toluene-d8	110	67	139		50	%		11/27/06	SW846 5030B	SW846 8260B
Dibromofluoromethane	109	64	140		50	%		11/27/06	SW846 5030B	SW846 8260B

PAH/PNA

Prep Date: 11/30/06

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene	22	15	52		5	ug/Kg	Q	12/01/06	SW846 3545	8270C-SIM
2-Methylnaphthalene	62	16	53		5	ug/Kg		12/01/06	SW846 3545	8270C-SIM
Acenaphthene	170	15	51		5	ug/Kg		12/01/06	SW846 3545	8270C-SIM
Acenaphthylene	91	15	49		5	ug/Kg		12/01/06	SW846 3545	8270C-SIM
Anthracene	610	18	61		5	ug/Kg		12/01/06	SW846 3545	8270C-SIM
Benzo(a)anthracene	570	27	91		5	ug/Kg		12/01/06	SW846 3545	8270C-SIM
Benzo(a)pyrene	330	15	49		5	ug/Kg		12/01/06	SW846 3545	8270C-SIM
Benzo(b)fluoranthene	730	14	48		5	ug/Kg		12/01/06	SW846 3545	8270C-SIM
Benzo(ghi)perylene	170	18	61		5	ug/Kg		12/01/06	SW846 3545	8270C-SIM
Benzo(k)fluoranthene	560	16	52		5	ug/Kg		12/01/06	SW846 3545	8270C-SIM
Chrysene	1400	22	74		5	ug/Kg		12/01/06	SW846 3545	8270C-SIM
Dibenz(a,h)anthracene	61	14	47		5	ug/Kg		12/01/06	SW846 3545	8270C-SIM
Fluoranthene	2500	15	49		5	ug/Kg		12/01/06	SW846 3545	8270C-SIM
Fluorene	300	17	58		5	ug/Kg		12/01/06	SW846 3545	8270C-SIM
Indeno(1,2,3-cd)pyrene	150	13	43		5	ug/Kg		12/01/06	SW846 3545	8270C-SIM
Naphthalene	55	21	68		5	ug/Kg	Q	12/01/06	SW846 3545	8270C-SIM
Phenanthrene	2200	15	50		5	ug/Kg		12/01/06	SW846 3545	8270C-SIM
Pyrene	2100	13	42		5	ug/Kg		12/01/06	SW846 3545	8270C-SIM

All soil results are reported on a dry weight basis unless otherwise noted.

**Pace Analytical
Services, Inc.**

Analytical Report Number: 878713

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : KU RESOURCES
Project Name : KOPPERS
Project Number : KI.06303SDPC.P
Field ID : S-6 0-6IN

Matrix Type : SOIL
Collection Date : 11/20/06
Report Date : 12/13/06
Lab Sample Number : 878713-006

										Prep Date: 11/30/06	
PAH/PNA	Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
	Surrogate		LCL	UCL							
	Nitrobenzene-d5	70	10	141		5	%		12/01/06	SW846 3545	8270C-SIM
	2-Fluorobiphenyl	64	10	161		5	%		12/01/06	SW846 3545	8270C-SIM
	Terphenyl-d14	73	29	150		5	%		12/01/06	SW846 3545	8270C-SIM

										Prep Date: 11/27/06	
SEMIVOLATILES - SPECIAL LIST	Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
	Pentachlorophenol	< 84	84	280		1	ug/Kg		11/27/06	SW846 3545	SW846 8270C
	Surrogate		LCL	UCL							
	2,4,6-Tribromophenol	90	21	128		1	%		11/27/06	SW846 3545	SW846 8270C

										Prep Date:	
DIOXINS - TETRA-OCTA	Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
	Dioxins - Tetra - Octa	INCL.									

**Pace Analytical
Services, Inc.**

Analytical Report Number: 878713

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : KU RESOURCES
Project Name : KOPPERS
Project Number : KI.06303SDPC.P
Field ID : DUP 0-6IN

Matrix Type : SOIL
Collection Date : 11/20/06
Report Date : 12/13/06
Lab Sample Number : 878713-007

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Arsenic	1.9	0.88	2.9		1	mg/Kg	Q	11/28/06	SW846 3050B	SW846 6010B
Chromium	50	0.16	0.53		1	mg/Kg		11/28/06	SW846 3050B	SW846 6010B
Copper	96	0.16	0.54		1	mg/Kg		11/28/06	SW846 3050B	SW846 6010B
Percent Solids	95.2				1	%		11/24/06	SM M2540G	SM M2540G

VOLATILES

Prep Date: 11/27/06

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,1,1,2-Tetrachloroethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,1,1-Trichloroethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,1-Dichloroethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,1-Dichloroethene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,1-Dichloropropene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,2,3-Trichloropropane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	< 82	82	200		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,2-Dibromoethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	< 44	44	110		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,2-Dichloroethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,2-Dichloropropane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,3-Dichloropropane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
2,2-Dichloropropane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
2-Chlorotoluene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
4-Chlorotoluene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Benzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Bromobenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Bromochloromethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Bromodichloromethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Bromoform	< 26	26	62		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Bromomethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Carbon Tetrachloride	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Chlorobenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Chlorodibromomethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Chloroethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Chloroform	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Chloromethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
cis-1,2-Dichloroethene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
cis-1,3-Dichloropropene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Dibromomethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Diisopropyl Ether	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Ethylbenzene	440	26	63		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B

All soil results are reported on a dry weight basis unless otherwise noted.

**Pace Analytical
Services, Inc.**

Analytical Report Number: 878713

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : KU RESOURCES
Project Name : KOPPERS
Project Number : KI.06303SDPC.P
Field ID : DUP 0-6IN

Matrix Type : SOIL
Collection Date : 11/20/06
Report Date : 12/13/06
Lab Sample Number : 878713-007

VOLATILES

Prep Date: 11/27/06

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Fluorotrichloromethane	92	26	63		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Hexachlorobutadiene	< 26	26	63		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Isopropylbenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Methylene Chloride	43	26	63		50	ug/Kg	QB	11/27/06	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Naphthalene	27	26	63		50	ug/Kg	Q	11/27/06	SW846 5030B	SW846 8260B
n-Butylbenzene	< 40	40	97		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
n-Propylbenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
p-Isopropyltoluene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
s-Butylbenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Styrene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
t-Butylbenzene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Tetrachloroethene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Toluene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
trans-1,3-Dichloropropene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Trichloroethene	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Vinyl Chloride	< 25	25	60		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Xylene, m + p	940	53	130		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Xylene, o	190	26	63		50	ug/Kg		11/27/06	SW846 5030B	SW846 8260B
Surrogate		LCL	UCL							
4-Bromofluorobenzene	103	64	133		50	%		11/27/06	SW846 5030B	SW846 8260B
Toluene-d8	110	67	139		50	%		11/27/06	SW846 5030B	SW846 8260B
Dibromofluoromethane	115	64	140		50	%		11/27/06	SW846 5030B	SW846 8260B

PAH/PNA

Prep Date: 12/01/06

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene	8.1	3.2	11		1	ug/Kg	Q	12/06/06	SW846 3545	8270C-SIM
2-Methylnaphthalene	15	3.3	11		1	ug/Kg		12/06/06	SW846 3545	8270C-SIM
Acenaphthene	15	3.1	10		1	ug/Kg		12/06/06	SW846 3545	8270C-SIM
Acenaphthylene	370	3.0	10		1	ug/Kg		12/06/06	SW846 3545	8270C-SIM
Anthracene	680	3.7	12		1	ug/Kg		12/06/06	SW846 3545	8270C-SIM
Benzo(a)anthracene	110	5.6	19		1	ug/Kg		12/06/06	SW846 3545	8270C-SIM
Benzo(a)pyrene	120	3.0	10		1	ug/Kg		12/06/06	SW846 3545	8270C-SIM
Benzo(b)fluoranthene	270	3.0	9.8		1	ug/Kg		12/06/06	SW846 3545	8270C-SIM
Benzo(ghi)perylene	510	3.7	12		1	ug/Kg		12/06/06	SW846 3545	8270C-SIM
Benzo(k)fluoranthene	170	3.2	11		1	ug/Kg		12/06/06	SW846 3545	8270C-SIM
Chrysene	210	4.6	15		1	ug/Kg		12/06/06	SW846 3545	8270C-SIM
Dibenz(a,h)anthracene	45	2.9	9.6		1	ug/Kg		12/06/06	SW846 3545	8270C-SIM
Fluoranthene	160	3.0	10		1	ug/Kg		12/06/06	SW846 3545	8270C-SIM
Fluorene	15	3.6	12		1	ug/Kg		12/06/06	SW846 3545	8270C-SIM
Indeno(1,2,3-cd)pyrene	170	2.6	8.8		1	ug/Kg		12/06/06	SW846 3545	8270C-SIM
Naphthalene	27	4.2	14		1	ug/Kg		12/06/06	SW846 3545	8270C-SIM
Phenanthrene	75	3.1	10		1	ug/Kg		12/06/06	SW846 3545	8270C-SIM
Pyrene	250	2.6	8.6		1	ug/Kg		12/06/06	SW846 3545	8270C-SIM

All soil results are reported on a dry weight basis unless otherwise noted.

**Pace Analytical
Services, Inc.**

Analytical Report Number: 878713

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : KU RESOURCES
Project Name : KOPPERS
Project Number : KI.06303SDPC.P
Field ID : DUP 0-6IN

Matrix Type : SOIL
Collection Date : 11/20/06
Report Date : 12/13/06
Lab Sample Number : 878713-007

PAH/PNA

Prep Date: 12/01/06

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Surrogate		LCL	UCL							
Nitrobenzene-d5	36	10	141		1	%		12/06/06	SW846 3545	8270C-SIM
2-Fluorobiphenyl	50	10	161		1	%		12/06/06	SW846 3545	8270C-SIM
Terphenyl-d14	60	29	150		1	%		12/06/06	SW846 3545	8270C-SIM

SEMIVOLATILES - SPECIAL LIST

Prep Date: 11/27/06

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Pentachlorophenol	< 86	86	290		1	ug/Kg		11/27/06	SW846 3545	SW846 8270C
Surrogate		LCL	UCL							
2,4,6-Tribromophenol	85	21	128		1	%		11/27/06	SW846 3545	SW846 8270C

DIOXINS - TETRA-OCTA

Prep Date:

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Dioxins - Tetra - Octa	INCL.									

**Pace Analytical
Services, Inc.**

Analytical Report Number: 878713

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : KU RESOURCES
Project Name : KOPPERS
Project Number : KI.06303SDPC.P
Field ID : TRIP BLANK

Matrix Type : METHANOL
Collection Date : 11/20/06
Report Date : 12/13/06
Lab Sample Number : 878713-008

VOLATILES

Prep Date: 11/27/06

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,1,1,2-Tetrachloroethane	< 25	25	60		50	ug/L		11/27/06	SW846 5030B	SW846 8260B
1,1,1-Trichloroethane	< 25	25	60		50	ug/L		11/27/06	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	< 25	25	60		50	ug/L		11/27/06	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	< 25	25	60		50	ug/L		11/27/06	SW846 5030B	SW846 8260B
1,1-Dichloroethane	< 25	25	60		50	ug/L		11/27/06	SW846 5030B	SW846 8260B
1,1-Dichloroethene	< 25	25	60		50	ug/L		11/27/06	SW846 5030B	SW846 8260B
1,1-Dichloropropene	< 25	25	60		50	ug/L		11/27/06	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	< 25	25	60		50	ug/L		11/27/06	SW846 5030B	SW846 8260B
1,2,3-Trichloropropane	< 25	25	60		50	ug/L		11/27/06	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	< 25	25	60		50	ug/L		11/27/06	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	< 25	25	60		50	ug/L		11/27/06	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	< 82	82	200		50	ug/L		11/27/06	SW846 5030B	SW846 8260B
1,2-Dibromoethane	< 25	25	60		50	ug/L		11/27/06	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	< 44	44	110		50	ug/L		11/27/06	SW846 5030B	SW846 8260B
1,2-Dichloroethane	< 25	25	60		50	ug/L		11/27/06	SW846 5030B	SW846 8260B
1,2-Dichloropropane	< 25	25	60		50	ug/L		11/27/06	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	< 25	25	60		50	ug/L		11/27/06	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	< 25	25	60		50	ug/L		11/27/06	SW846 5030B	SW846 8260B
1,3-Dichloropropane	< 25	25	60		50	ug/L		11/27/06	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	< 25	25	60		50	ug/L		11/27/06	SW846 5030B	SW846 8260B
2,2-Dichloropropane	< 25	25	60		50	ug/L		11/27/06	SW846 5030B	SW846 8260B
2-Chlorotoluene	< 25	25	60		50	ug/L		11/27/06	SW846 5030B	SW846 8260B
4-Chlorotoluene	< 25	25	60		50	ug/L		11/27/06	SW846 5030B	SW846 8260B
Benzene	< 25	25	60		50	ug/L		11/27/06	SW846 5030B	SW846 8260B
Bromobenzene	< 25	25	60		50	ug/L		11/27/06	SW846 5030B	SW846 8260B
Bromochloromethane	< 25	25	60		50	ug/L		11/27/06	SW846 5030B	SW846 8260B
Bromodichloromethane	< 25	25	60		50	ug/L		11/27/06	SW846 5030B	SW846 8260B
Bromoform	< 26	26	62		50	ug/L		11/27/06	SW846 5030B	SW846 8260B
Bromomethane	< 25	25	60		50	ug/L		11/27/06	SW846 5030B	SW846 8260B
Carbon Tetrachloride	< 25	25	60		50	ug/L		11/27/06	SW846 5030B	SW846 8260B
Chlorobenzene	< 25	25	60		50	ug/L		11/27/06	SW846 5030B	SW846 8260B
Chlorodibromomethane	< 25	25	60		50	ug/L		11/27/06	SW846 5030B	SW846 8260B
Chloroethane	< 25	25	60		50	ug/L		11/27/06	SW846 5030B	SW846 8260B
Chloroform	< 25	25	60		50	ug/L		11/27/06	SW846 5030B	SW846 8260B
Chloromethane	< 25	25	60		50	ug/L		11/27/06	SW846 5030B	SW846 8260B
cis-1,2-Dichloroethene	< 25	25	60		50	ug/L		11/27/06	SW846 5030B	SW846 8260B
cis-1,3-Dichloropropene	< 25	25	60		50	ug/L		11/27/06	SW846 5030B	SW846 8260B
Dibromomethane	< 25	25	60		50	ug/L		11/27/06	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	< 25	25	60		50	ug/L		11/27/06	SW846 5030B	SW846 8260B
Diisopropyl Ether	< 25	25	60		50	ug/L		11/27/06	SW846 5030B	SW846 8260B
Ethylbenzene	< 25	25	60		50	ug/L		11/27/06	SW846 5030B	SW846 8260B
Fluorotrichloromethane	< 25	25	60		50	ug/L		11/27/06	SW846 5030B	SW846 8260B
Hexachlorobutadiene	< 26	26	63		50	ug/L		11/27/06	SW846 5030B	SW846 8260B
Isopropylbenzene	< 25	25	60		50	ug/L		11/27/06	SW846 5030B	SW846 8260B
Methylene Chloride	47	25	60		50	ug/L	QB	11/27/06	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 25	25	60		50	ug/L		11/27/06	SW846 5030B	SW846 8260B
Naphthalene	< 25	25	60		50	ug/L		11/27/06	SW846 5030B	SW846 8260B
n-Butylbenzene	< 40	40	97		50	ug/L		11/27/06	SW846 5030B	SW846 8260B

**Pace Analytical
Services, Inc.**

Analytical Report Number: 878713

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : KU RESOURCES
Project Name : KOPPERS
Project Number : KI.06303SDPC.P
Field ID : TRIP BLANK

Matrix Type : METHANOL
Collection Date : 11/20/06
Report Date : 12/13/06
Lab Sample Number : 878713-008

VOLATILES

Prep Date: 11/27/06

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
n-Propylbenzene	< 25	25	60		50	ug/L		11/27/06	SW846 5030B	SW846 8260B
p-Isopropyltoluene	< 25	25	60		50	ug/L		11/27/06	SW846 5030B	SW846 8260B
s-Butylbenzene	< 25	25	60		50	ug/L		11/27/06	SW846 5030B	SW846 8260B
Styrene	< 25	25	60		50	ug/L		11/27/06	SW846 5030B	SW846 8260B
t-Butylbenzene	< 25	25	60		50	ug/L		11/27/06	SW846 5030B	SW846 8260B
Tetrachloroethene	< 25	25	60		50	ug/L		11/27/06	SW846 5030B	SW846 8260B
Toluene	< 25	25	60		50	ug/L		11/27/06	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	< 25	25	60		50	ug/L		11/27/06	SW846 5030B	SW846 8260B
trans-1,3-Dichloropropene	< 25	25	60		50	ug/L		11/27/06	SW846 5030B	SW846 8260B
Trichloroethene	< 25	25	60		50	ug/L		11/27/06	SW846 5030B	SW846 8260B
Vinyl Chloride	< 25	25	60		50	ug/L		11/27/06	SW846 5030B	SW846 8260B
Xylene, m + p	< 50	50	120		50	ug/L		11/27/06	SW846 5030B	SW846 8260B
Xylene, o	< 25	25	60		50	ug/L		11/27/06	SW846 5030B	SW846 8260B
Surrogate		LCL	UCL							
4-Bromofluorobenzene	92	64	133		50	%		11/27/06	SW846 5030B	SW846 8260B
Toluene-d8	94	67	139		50	%		11/27/06	SW846 5030B	SW846 8260B
Dibromofluoromethane	99	64	140		50	%		11/27/06	SW846 5030B	SW846 8260B

**Pace Analytical
Services, Inc.**

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436
Fax: 920-469-8827

Lab Number	TestGroupID	Field ID	Comment
878713-001	8260+-S-ME	S-1 0-6IN	B - Analyte present in blank at 26.2 ug/Kg.
878713-001	PAH+-S	S-1 0-6IN	Internal standard failed due to matrix interference, failure was confirmed by a second analyses.
878713-002	8260+-S-ME	S-2 0-6IN	B - Analyte present in blank at 26.2 ug/Kg.
878713-003	8260+-S-ME	S-3 0-6IN	B - Analyte present in blank at 26.2 ug/Kg.
878713-004	8260+-S-ME	S-4 0-6IN	B - Analyte present in blank at 26.2 ug/Kg.
878713-005	8260+-S-ME	S-5 0-6IN	B - Analyte present in blank at 26.2 ug/Kg.
878713-005	PAH+-S	S-5 0-6IN	MS/MSD failures due to the dilution required for analyses and sample matrix.
878713-006	8260+-S-ME	S-6 0-6IN	B - Analyte present in blank at 26.2 ug/Kg.
878713-007	8260+-S-ME	DUP 0-6IN	B - Analyte present in blank at 26.2 ug/Kg.
878713-008	8260+-M	TRIP BLANK	B - Analyte present in blank at 26.2 ug/Kg.

Qualifier Codes

Flag Applies To Explanation

Flag	Applies To	Explanation
A	Inorganic	Analyte is detected in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
B	Inorganic	The analyte has been detected between the method detection limit and the reporting limit.
B	Organic	Analyte is present in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
C	All	Elevated detection limit.
D	All	Analyte value from diluted analysis or surrogate result not applicable due to sample dilution.
E	Inorganic	Estimated concentration due to matrix interferences. During the metals analysis the serial dilution failed to meet the established control limits of 0-10%. The sample concentration is greater than 50 times the IDL for analysis done on the ICP or 100 times the IDL for analysis done on the ICP-MS. The result was flagged with the E qualifier to indicate that a physical interference was observed.
E	Organic	Analyte concentration exceeds calibration range.
F	Inorganic	Due to potential interferences for this analysis by Inductively Coupled Plasma techniques (SW-846 Method 6010), this analyte has been confirmed by and reported from an alternate method.
F	Organic	Surrogate results outside control criteria.
G	All	The result is estimated because the concentration is less than the lowest calibration standard concentration utilized in the initial calibration. The method detection limit is less than the reporting limit specified for this project.
H	All	Preservation, extraction or analysis performed past holding time.
HF	Inorganic	This test is considered a field parameter, and the recommended holding time is 15 minutes from collection. The analysis was performed in the laboratory beyond the recommended holding time.
J	All	Concentration detected equal to or greater than the method detection limit but less than the reporting limit.
K	Inorganic	Sample received unpreserved. Sample was either preserved at the time of receipt or at the time of sample preparation.
K	Organic	Detection limit may be elevated due to the presence of an unrequested analyte.
L	All	Elevated detection limit due to low sample volume.
M	Organic	Sample pH was greater than 2
N	All	Spiked sample recovery not within control limits.
O	Organic	Sample received overweight.
P	Organic	The relative percent difference between the two columns for detected concentrations was greater than 40%.
Q	All	The analyte has been detected between the limit of detection (LOD) and limit of quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.
S	Organic	The relative percent difference between quantitation and confirmation columns exceeds internal quality control criteria. Because the result is unconfirmed, it has been reported as a non-detect with an elevated detection limit.
U	All	The analyte was not detected at or above the reporting limit.
V	All	Sample received with headspace.
W	All	A second aliquot of sample was analyzed from a container with headspace.
X	All	See Sample Narrative.
Z	Organics	This compound was separated in the check standard but it did not meet the resolution criteria as set forth in SW846.
&	All	Laboratory Control Spike recovery not within control limits.
*	All	Precision not within control limits.
+	Inorganic	The sample result is greater than four times the spike level; therefore, the percent recovery is not evaluated.
<	All	The analyte was not detected at or above the reporting limit.
1	Inorganic	Dissolved analyte or filtered analyte greater than total analyte; analyses passed QC based on precision criteria.
2	Inorganic	Dissolved analyte or filtered analyte greater than total analyte; analyses failed QC based on precision criteria.
3	Inorganic	BOD result is estimated due to the BOD blank exceeding the allowable oxygen depletion.
4	Inorganic	BOD duplicate precision not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
5	Inorganic	BOD result is estimated due to insufficient oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
6	Inorganic	BOD laboratory control sample not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
7	Inorganic	BOD result is estimated due to complete oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.

Test Group Name	878713-001	878713-002	878713-003	878713-004	878713-005	878713-006	878713-007	878713-008
ARSENIC	B	B	B	B	B	B	B	B
CHROMIUM	B	B	B	B	B	B	B	B
COPPER	B	B	B	B	B	B	B	B
DIOXINS - TETRA-OCTA		M	M				M	M
PAH/PNA	B	B	B	B	B	B	B	B
PERCENT SOLIDS	B	B	B	B	B	B	B	B
SEMIVOLATILES - SPECIAL LIST	B	B	B	B	B	B	B	B
VOLATILES	G	G	G	G	G	G	G	G

Code	Facility	Address	WI Certification
B	Green Bay Lab (Bellevue St)	1241 Bellevue Street, Suite 9 Green Bay, WI 54302	405132750 / DATCP: 105-444
G	Green Bay Lab (Industrial Dr)	1795 Industrial Drive Green Bay, WI 54302	405132750
M	Minnesota Laboratory	1700 Elm Street, Suite 200 Minneapolis, MN	999407970



Sample Condition Upon Receipt

Client Name: KU Resources Project # 878713

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used NA Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature ROI

Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 11-22-06 GO
4/1/22/06

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:	<u>S/MeOH</u>	
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	16. <u>IT IS MEYER/ 11/22/06 GO</u>
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: EB 12/4/06

Date: _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)



Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

DETERMINATION OF PCDD/PCDF LEVELS

Prepared for:
Pace Analytical Services, Inc.
Attn: Eric Bullock
1241 Bellevue Street, Suite 9
Green Bay, WI 54302



This report contains 22 pages.

The results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Project Number: 878713

Purchase Order Number: NA

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

REPORT OF: CHEMICAL ANALYSES

PROJECT: PCDD/PCDF ANALYSES **DATE:** December 8, 2006
ISSUED TO: Pace Analytical Services, Inc. **REPORT NO:** 06-1042590
Attn: Eric Bullock
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

INTRODUCTION

This report presents the results from the analyses performed on four samples submitted by a representative of Pace Analytical Services, Inc. The samples were analyzed for the presence or absence of polychlorodibenzo-p-dioxins (PCDDs) and polychlorodibenzofurans (PCDFs) using a modified version of USEPA Method 8290.

SAMPLE IDENTIFICATION

<u>Client ID</u>	<u>Sample Type</u>	<u>Date Received</u>	<u>Pace ID</u>
S-2 0-6 IN	Solid	11/28/06	878713002
S-3 0-6 IN	Solid	11/28/06	878713003
S-6 0-6 IN	Solid	11/28/06	878713006
DUP 0-6 IN	Solid	11/28/06	878713007

RESULTS

The results from the analyses are included in the following:

- Appendix A -Chain of Custody Documentation
- Appendix B - PCDD/PCDF Analysis Results (Standard Reporting Limits)
- Appendix C - PCDD/PCDF Analysis Results (LOD Reporting Limits)

DISCUSSION

The recoveries of the isotopically-labeled PCDD/PCDF internal standards in the sample extracts ranged from 74-143%. With the exceptions of three elevated values, which were flagged "P" on the results tables, the labeled standard recoveries obtained for the field samples were within the 40-135% target range specified in Method 8290. Also, since the quantification of the native 2,3,7,8-substituted congeners was based on isotope dilution, the data were automatically corrected for variation in recovery and accurate values were obtained.

REPORT OF LABORATORY ANALYSIS

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REPORT OF: CHEMICAL ANALYSES

PROJECT: PCDD/PCDF ANALYSES

DATE: December 8, 2006

PAGE: 2

REPORT NO: 06-1042590

DISCUSSION (cont.)

In some cases, interfering substances impacted the determinations of PCDD or PCDF congeners. The affected values were flagged "E" where polychlorinated diphenyl ethers were present, or "I" where incorrect isotope ratios were obtained. Also, in one case, the value reported for OCDD was obtained from analysis of a dilution of the sample extract; the affected value was flagged "N2" on the results table.

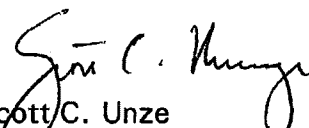
A laboratory method blank was prepared and analyzed with the sample batch as part of our routine quality control procedures. The results, found at the beginning of Appendix B, show the blank to be free of PCDDs and PCDFs at the specified reporting limits. The limit of detection (LOD) results, included in Appendix C, show the blank to contain trace levels of selected congeners. These were below the calibration range of the method. The levels reported for the affected congeners in the field samples were higher than the corresponding blank levels by one or more orders of magnitude. These results indicate that the sample processing steps did not contribute significantly to the levels reported for the field samples.

Laboratory and matrix spike samples were also prepared with the sample batch using clean sand or sample matrix that had been fortified with native standard materials. The results, found at the end of Appendix C, show that the spiked native compounds were generally recovered at 74-124%, with relative percent differences of 9.2-36.3%. Somewhat variable background-subtracted values were obtained for selected congeners in the matrix spike samples, due to the levels of these compounds in the sample material. Also, four labeled standard values obtained for the spiked samples were above the target range; the affected values were flagged "P" on the results tables.

REMARKS

The sample extracts will be retained for a period of 15 days from the date of this report and then discarded unless other arrangements are made. The raw mass spectral data will be archived for a period of not less than one year. Questions regarding the data contained in this report may be directed to the author at the number provided below.

Pace Analytical Services, Inc.


Scott C. Unze
Project Manager, HRMS
(612) 607-6383

REPORT OF LABORATORY ANALYSIS

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TABLE 1. 2,3,7,8-TCDD Equivalency Factors (TEFs) for the Polychlorinated Dibenzo-p-dioxins and Dibenzofurans

Number	Compound(s)	TEF
1	2,3,7,8-TCDD	1.00
2	1,2,3,7,8-PeCDD	0.50
3	1,2,3,6,7,8-HxCDD	0.1
4	1,2,3,7,8,9-HxCDD	0.1
5	1,2,3,4,7,8-HxCDD	0.1
6	1,2,3,4,6,7,8-HpCDD	0.01
7	OCDD	0.001
8	* Total - TCDD	0.0
9	* Total - PeCDD	0.0
10	* Total - HxCDD	0.0
11	* Total - HpCDD	0.0
12	2,3,7,8-TCDF	0.10
13	1,2,3,7,8-PeCDF	0.05
14	2,3,4,7,8-PeCDF	0.5
15	1,2,3,6,7,8-HxCDF	0.1
16	1,2,3,7,8,9-HxCDF	0.1
17	1,2,3,4,7,8-HxCDF	0.1
18	2,3,4,6,7,8-HxCDF	0.1
19	1,2,3,4,6,7,8-HpCDF	0.01
20	1,2,3,4,7,8,9-HpCDF	0.01
21	OCDF	0.001
22	* Total - TCDF	0.0
23	* Total - PeCDF	0.0
24	* Total - HxCDF	0.0
25	* Total - HpCDF	0.0

*Excluding the 2,3,7,8-substituted congeners.

Reference: 1989 ITEFs

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APPENDIX A

REPORT OF LABORATORY ANALYSIS

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IRWO			
Sending Region / Original Receipt Date:	11/22-WI	Sending Project No:	878713
Receiving Region:	mn	Receiving Project No:	1042590
State of Sample Origin:	(wi)	Date IRWO / Sub-COC Prepared:	11/27/06
Sending Project Manager:	emb	REQUESTED COMPLETION DATE:	12/15/06
Consolidated IRWO:	n	Return Samples to Sending Region:	No
External Client:	KU RESOURCES	Was Completion Date pre-approved by receiving lab:	no
QC Deliverable Needed:	2	Reportable Units Needed:	std
Work Type if not Analytical:	-	Report on a Wet Weight or Dry Weight Basis:	DRY
Any Other Special Requirements: (All questions go to sending PM)			

Test Requested	Quantity	Unit Price	Sub-Total 1	Test Requested	Quantity	Unit Price	Sub-Total 2
DIOXINS/FURANS	4	\$ 800.00	\$ 3,200.00				\$ -
			\$ -				\$ -
			\$ -				\$ -
			\$ -				\$ -

Total = Sub-Total 1 + Sub-Total 2: \$ 3,200.00

Receiving Region/Department	GL Accounting Code	Totals from above	Revenue Allocation	
			Receiving Region (80%)	Client Services Sending Region (20%)
Microbiology	17		\$ -	\$ -
Metals	20		\$ -	\$ -
Wet Chemistry	21		\$ -	\$ -
SV GCMS	30		\$ -	\$ -
SV GC & LC	31		\$ -	\$ -
V GC	33		\$ -	\$ -
V GCMS	34		\$ -	\$ -
Dioxin* (90/10 split)	35	\$ 3,200.00	\$ 2,880.00	\$ 320.00
Air	39		\$ -	\$ -
Other (Specify)			\$ -	\$ -
Total			\$ 2,880.00	\$ 320.00

Sub-COC

P = Poly	Bottle Preservative	b
G = Glass	Bottle Type	ag
AG = Amber Glass	Number of Bottles	1
*Preservation Codes A = None B = HCL C = H2SO4 D = HNO3 E = DI Water F = Methanol G = NaOH H = Sodium Bisulfate I = Na2S2O3	Analyses	DIOXIN FURAN (8290)

Client Sample ID	Pace Lab Number	Collect Date/Time	Matrix	Method		
S-2 0-6 IN	878713-002	11/20/06	S		X	001
S-3 0-6 IN	878713-003	11/20/06	S		X	002
S-6 0-6 IN	878713-006	11/20/06	S		X	003
DUP 0-6 IN	878713-007	11/20/06	S		X	004

Relinquished By: *Erica Roberts* Date/Time: 11-27-06 11:50
 Received By: *HRS* Date/Time:
 Relinquished By: Date/Time: Received By: *Ray M. Pace* Date/Time: 11-28-06 08:00
 Confirmation of Work Completed By Receiving PM: *Sam C. Murray* Receipt Temperature = 19°C Date: 12/18/06

DISPOSITION of FORM: When work is completed, copy of Sub-COC/IRWO goes to ABM



Pace Analytical Services, Inc.
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APPENDIX B

REPORT OF LABORATORY ANALYSIS

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Method 8290 Blank Analysis Results

Client - PACE Wisconsin

Lab Sample ID	BLANK-11597	Matrix	Solid
Filename	F61205B_03	Dilution	NA
Total Amount Extracted	10.4 g	Extracted	12/01/2006
ICAL Date	09/10/2006	Analyzed	12/05/2006 16:24
CCal Filename(s)	F61205A_09 & F61205B_07	Injected By	SMT

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	0.190	2,3,7,8-TCDF-13C	2.00	99
Total TCDF	ND	----	0.190	2,3,7,8-TCDD-13C	2.00	99
				1,2,3,7,8-PeCDF-13C	2.00	87
2,3,7,8-TCDD	ND	----	0.190	2,3,4,7,8-PeCDF-13C	2.00	99
Total TCDD	ND	----	0.190	1,2,3,7,8-PeCDD-13C	2.00	131
				1,2,3,4,7,8-HxCDF-13C	2.00	97
1,2,3,7,8-PeCDF	ND	----	0.960	1,2,3,6,7,8-HxCDF-13C	2.00	92
2,3,4,7,8-PeCDF	ND	----	0.960	2,3,4,6,7,8-HxCDF-13C	2.00	107
Total PeCDF	ND	----	0.960	1,2,3,7,8,9-HxCDF-13C	2.00	96
				1,2,3,4,7,8-HxCDD-13C	2.00	103
1,2,3,7,8-PeCDD	ND	----	0.960	1,2,3,6,7,8-HxCDD-13C	2.00	100
Total PeCDD	ND	----	0.960	1,2,3,4,6,7,8-HpCDF-13C	2.00	106
				1,2,3,4,7,8,9-HpCDF-13C	2.00	100
1,2,3,4,7,8-HxCDF	ND	----	0.960	1,2,3,4,6,7,8-HpCDD-13C	2.00	132
1,2,3,6,7,8-HxCDF	ND	----	0.960	OCDD-13C	4.00	132
2,3,4,6,7,8-HxCDF	ND	----	0.960			
1,2,3,7,8,9-HxCDF	ND	----	0.960	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----	0.960	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	0.960	2,3,7,8-TCDD-37Cl4	0.20	83
1,2,3,6,7,8-HxCDD	ND	----	0.960			
1,2,3,7,8,9-HxCDD	ND	----	0.960			
Total HxCDD	ND	----	0.960			
1,2,3,4,6,7,8-HpCDF	ND	----	0.960	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	0.960	Equivalence: 0.00 ng/Kg		
Total HpCDF	ND	----	0.960	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	----	0.960			
Total HpCDD	ND	----	0.960			
OCDF	ND	----	1.900			
OCDD	ND	----	1.900			

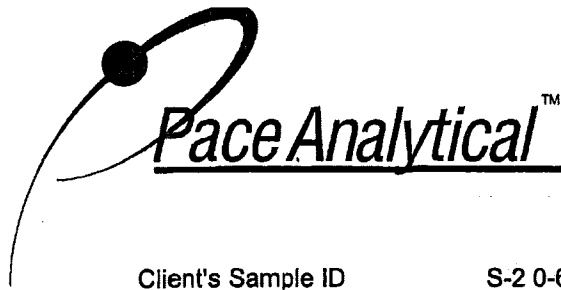
Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
 EMPC = Estimated Maximum Possible Concentration
 LRL = Lower Reporting Limit
 J = Concentration detected is below the calibration range
 P = Recovery outside of target range
 A = Detection Limit based on signal-to-noise measurement

I = Interference
 E = PCDE Interference
 ND = Not Detected
 NA = Not Applicable
 NC = Not Calculated
 * = See Discussion

Report No.....1042590

REPORT OF LABORATORY ANALYSIS

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Method 8290 Analysis Results

Client - PACE Wisconsin

Client's Sample ID	S-2 0-6 IN		
Lab Sample ID	878713002		
Filename	F61204B_11		
Injected By	SMT		
Total Amount Extracted	10.6 g	Matrix	Solid
% Moisture	4.7	Dilution	NA
Dry Weight Extracted	10.1 g	Collected	11/20/2006
ICAL Date	09/10/2006	Received	11/28/2006
CCal Filename(s)	F61204A_05 & F61204B_16	Extracted	12/01/2006
Method Blank ID	BLANK-11597	Analyzed	12/04/2006 23:55

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.82	----	0.20	J	2,3,7,8-TCDF-13C	2.00	99
Total TCDF	3.70	----	0.20		2,3,7,8-TCDD-13C	2.00	93
					1,2,3,7,8-PeCDF-13C	2.00	109
2,3,7,8-TCDD	2.50	----	0.37	A	2,3,4,7,8-PeCDF-13C	2.00	115
Total TCDD	30.00	----	0.20		1,2,3,7,8-PeCDD-13C	2.00	137 P
					1,2,3,4,7,8-HxCDF-13C	2.00	110
1,2,3,7,8-PeCDF	5.60	----	0.99		1,2,3,6,7,8-HxCDF-13C	2.00	80
2,3,4,7,8-PeCDF	9.50	----	0.99		2,3,4,6,7,8-HxCDF-13C	2.00	97
Total PeCDF	84.00	----	0.99		1,2,3,7,8,9-HxCDF-13C	2.00	97
					1,2,3,4,7,8-HxCDD-13C	2.00	115
1,2,3,7,8-PeCDD	21.00	----	0.99		1,2,3,6,7,8-HxCDD-13C	2.00	79
Total PeCDD	180.00	----	0.99		1,2,3,4,6,7,8-HpCDF-13C	2.00	94
					1,2,3,4,7,8,9-HpCDF-13C	2.00	87
1,2,3,4,7,8-HxCDF	41.00	----	1.40	A	1,2,3,4,6,7,8-HpCDD-13C	2.00	127
1,2,3,6,7,8-HxCDF	----	21	2.60	EA	OCDD-13C	4.00	130
2,3,4,6,7,8-HxCDF	21.00	----	2.70	A			
1,2,3,7,8,9-HxCDF	13.00	----	1.30	A	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	310.00	----	0.99		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	59.00	----	1.60	A	2,3,7,8-TCDD-37Cl4	0.20	84
1,2,3,6,7,8-HxCDD	160.00	----	1.80	A			
1,2,3,7,8,9-HxCDD	90.00	----	1.90	A			
Total HxCDD	2500.00	----	0.99				
1,2,3,4,6,7,8-HpCDF	570.00	----	1.90	A	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	56.00	----	1.40	A	Equivalence: 160 ng/Kg		
Total HpCDF	790.00	----	0.99		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	5000.00	----	4.20	A			
Total HpCDD	24000.00	----	0.99				
OCDF	1800.00	----	2.00				
OCDD	41000.00	----	2.00				

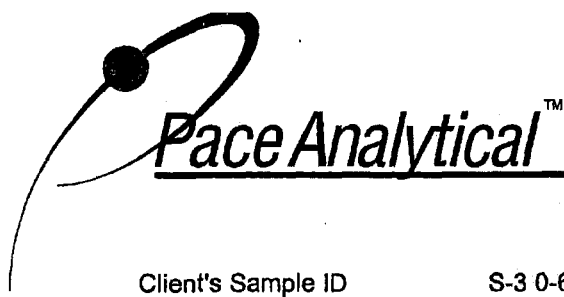
Results reported on a dry weight basis
 Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
 EMPC = Estimated Maximum Possible Concentration
 A = Detection Limit based on signal-to-noise measurement
 J = Concentration detected is below the calibration range
 B = Less than 10 times higher than method blank level
 P = Recovery outside of target range
 Nn = Value obtained from additional analysis
 EMPC values were excluded from the TEQ calculations.

LRL = Lower Reporting Limit
 I = Interference
 E = PCDE Interference
 S = Saturated signal
 ND = Not Detected
 NA = Not Applicable
 NC = Not Calculated
 * = See Discussion

Report No.....1042590

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Method 8290 Analysis Results

Client - PACE Wisconsin

Client's Sample ID	S-3 0-6 IN	Matrix	Solid
Lab Sample ID	878713003	Dilution	NA
Filename	F61204B_12	Collected	11/20/2006
Injected By	SMT	Received	11/28/2006
Total Amount Extracted	11.1 g	Extracted	12/01/2006
% Moisture	9.9	Analyzed	12/05/2006 00:45
Dry Weight Extracted	10.00 g		
ICAL Date	09/10/2006		
CCal Filename(s)	F61204A_05 & F61204B_16		
Method Blank ID	BLANK-11597		

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	2.1	0.65	EA	2,3,7,8-TCDF-13C	2.00	92
Total TCDF	0.80	-----	0.20	J	2,3,7,8-TCDD-13C	2.00	95
					1,2,3,7,8-PeCDF-13C	2.00	74
2,3,7,8-TCDD	ND	-----	1.30	A	2,3,4,7,8-PeCDF-13C	2.00	78
Total TCDD	ND	-----	0.20		1,2,3,7,8-PeCDD-13C	2.00	96
					1,2,3,4,7,8-HxCDF-13C	2.00	107
1,2,3,7,8-PeCDF	-----	1.4	1.00	I	1,2,3,6,7,8-HxCDF-13C	2.00	97
2,3,4,7,8-PeCDF	-----	2.6	1.50	IA	2,3,4,6,7,8-HxCDF-13C	2.00	81
Total PeCDF	43.00	-----	1.00		1,2,3,7,8,9-HxCDF-13C	2.00	82
					1,2,3,4,7,8-HxCDD-13C	2.00	91
1,2,3,7,8-PeCDD	5.30	-----	1.00		1,2,3,6,7,8-HxCDD-13C	2.00	80
Total PeCDD	50.00	-----	1.00		1,2,3,4,6,7,8-HpCDF-13C	2.00	79
					1,2,3,4,7,8,9-HpCDF-13C	2.00	77
1,2,3,4,7,8-HxCDF	-----	33.0	1.40	IA	1,2,3,4,6,7,8-HpCDD-13C	2.00	115
1,2,3,6,7,8-HxCDF	-----	150.0	1.00	E	OCDD-13C	4.00	143 P
2,3,4,6,7,8-HxCDF	4.90	-----	1.00	J			
1,2,3,7,8,9-HxCDF	11.00	-----	1.00		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	440.00	-----	1.00		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	23.00	-----	1.00		2,3,7,8-TCDD-37Cl4	0.20	92
1,2,3,6,7,8-HxCDD	86.00	-----	1.00				
1,2,3,7,8,9-HxCDD	27.00	-----	1.00				
Total HxCDD	2500.00	-----	1.00				
1,2,3,4,6,7,8-HpCDF	420.00	-----	2.00	A	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	40.00	-----	4.70	A	Equivalence: 99 ng/Kg		
Total HpCDF	2100.00	-----	1.00		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	4100.00	-----	1.00				
Total HpCDD	26000.00	-----	1.00				
OCDF	1400.00	-----	2.00				
OCDD	33000.00	-----	2.00				

Results reported on a dry weight basis
 Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
 EMPC = Estimated Maximum Possible Concentration
 A = Detection Limit based on signal-to-noise measurement
 J = Concentration detected is below the calibration range
 B = Less than 10 times higher than method blank level
 P = Recovery outside of target range
 Nn = Value obtained from additional analysis
 EMPC values were excluded from the TEQ calculations.

LRL = Lower Reporting Limit
 I = Interference
 E = PCDE Interference
 S = Saturated signal
 ND = Not Detected
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Method 8290 Analysis Results

Client - PACE Wisconsin

Client's Sample ID	S-6 0-6 IN		
Lab Sample ID	878713006		
Filename	F61205B_05		
Injected By	SMT		
Total Amount Extracted	10.3 g	Matrix	Solid
% Moisture	2.8	Dilution	NA
Dry Weight Extracted	10.0 g	Collected	11/20/2006
ICAL Date	09/10/2006	Received	11/28/2006
CCal Filename(s)	F61205A_09 & F61205B_07	Extracted	12/01/2006
Method Blank ID	BLANK-11597	Analyzed	12/05/2006 18:02

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	0.200	2,3,7,8-TCDF-13C	2.00	97
Total TCDF	ND	----	0.200	2,3,7,8-TCDD-13C	2.00	96
				1,2,3,7,8-PeCDF-13C	2.00	101
2,3,7,8-TCDD	ND	----	0.200	2,3,4,7,8-PeCDF-13C	2.00	104
Total TCDD	ND	----	0.200	1,2,3,7,8-PeCDD-13C	2.00	123
				1,2,3,4,7,8-HxCDF-13C	2.00	107
1,2,3,7,8-PeCDF	ND	----	1.000	1,2,3,6,7,8-HxCDF-13C	2.00	87
2,3,4,7,8-PeCDF	ND	----	1.000	2,3,4,6,7,8-HxCDF-13C	2.00	102
Total PeCDF	1.3	----	1.000 J	1,2,3,7,8,9-HxCDF-13C	2.00	96
				1,2,3,4,7,8-HxCDD-13C	2.00	113
1,2,3,7,8-PeCDD	ND	----	1.000	1,2,3,6,7,8-HxCDD-13C	2.00	87
Total PeCDD	ND	----	1.000	1,2,3,4,6,7,8-HpCDF-13C	2.00	106
				1,2,3,4,7,8,9-HpCDF-13C	2.00	97
1,2,3,4,7,8-HxCDF	ND	----	1.000	1,2,3,4,6,7,8-HpCDD-13C	2.00	134
1,2,3,6,7,8-HxCDF	ND	----	1.000	OCDD-13C	4.00	119
2,3,4,6,7,8-HxCDF	ND	----	1.000			
1,2,3,7,8,9-HxCDF	ND	----	1.000	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	2.7	----	1.000 J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	1.000	2,3,7,8-TCDD-37Cl4	0.20	84
1,2,3,6,7,8-HxCDD	1.9	----	1.000 J			
1,2,3,7,8,9-HxCDD	1.4	----	1.000 J			
Total HxCDD	23.0	----	1.000			
1,2,3,4,6,7,8-HpCDF	7.1	----	1.000	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	1.000	Equivalence: 1.4 ng/Kg		
Total HpCDF	22.0	----	1.000	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	52.0	----	1.000			
Total HpCDD	200.0	----	1.000			
OCDF	23.0	----	2.000			
OCDD	420.0	----	2.000			

Results reported on a dry weight basis
 Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
 EMPC = Estimated Maximum Possible Concentration
 A = Detection Limit based on signal-to-noise measurement
 J = Concentration detected is below the calibration range
 B = Less than 10 times higher than method blank level
 P = Recovery outside of target range
 Nn = Value obtained from additional analysis
 EMPC values were excluded from the TEQ calculations.

LRL = Lower Reporting Limit
 I = Interference
 E = PCDE Interference
 S = Saturated signal
 ND = Not Detected
 NA = Not Applicable
 NC = Not Calculated
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Report No.....1042590

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Method 8290 Analysis Results

Client - PACE Wisconsin

Client's Sample ID	DUP 0-6 IN	Matrix	Solid
Lab Sample ID	878713007	Dilution	NA
Filename	F61204B_14	Collected	11/20/2006
Injected By	SMT	Received	11/28/2006
Total Amount Extracted	10.6 g	Extracted	12/01/2006
% Moisture	3.9	Analyzed	12/05/2006 02:22
Dry Weight Extracted	10.2 g		
ICAL Date	09/10/2006		
CCal Filename(s)	F61204A_05 & F61204B_16		
Method Blank ID	BLANK-11597		

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.67	----	0.30	JA	2,3,7,8-TCDF-13C	2.00	101
Total TCDF	3.80	----	0.20		2,3,7,8-TCDD-13C	2.00	104
					1,2,3,7,8-PeCDF-13C	2.00	109
2,3,7,8-TCDD	3.10	----	0.33	A	2,3,4,7,8-PeCDF-13C	2.00	115
Total TCDD	32.00	----	0.20		1,2,3,7,8-PeCDD-13C	2.00	142 P
					1,2,3,4,7,8-HxCDF-13C	2.00	105
1,2,3,7,8-PeCDF	-----	3.4	1.10	IA	1,2,3,6,7,8-HxCDF-13C	2.00	95
2,3,4,7,8-PeCDF	9.80	----	1.10	A	2,3,4,6,7,8-HxCDF-13C	2.00	98
Total PeCDF	85.00	----	0.98		1,2,3,7,8,9-HxCDF-13C	2.00	98
					1,2,3,4,7,8-HxCDD-13C	2.00	110
1,2,3,7,8-PeCDD	32.00	----	0.98		1,2,3,6,7,8-HxCDD-13C	2.00	90
Total PeCDD	190.00	----	0.98		1,2,3,4,6,7,8-HpCDF-13C	2.00	89
					1,2,3,4,7,8,9-HpCDF-13C	2.00	81
1,2,3,4,7,8-HxCDF	58.00	----	1.90	A	1,2,3,4,6,7,8-HpCDD-13C	2.00	125
1,2,3,6,7,8-HxCDF	14.00	----	1.90	A	OCDD-13C	4.00	120
2,3,4,6,7,8-HxCDF	-----	20.0	2.70	EA			
1,2,3,7,8,9-HxCDF	14.00	----	2.20	A	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	790.00	----	0.98		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	60.00	----	1.80	A	2,3,7,8-TCDD-37Cl4	0.20	93
1,2,3,6,7,8-HxCDD	160.00	----	1.20	A			
1,2,3,7,8,9-HxCDD	94.00	----	0.98				
Total HxCDD	2800.00	----	0.98				
1,2,3,4,6,7,8-HpCDF	590.00	----	2.30	A	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	60.00	----	2.30	A	Equivalence: 170 ng/Kg		
Total HpCDF	2600.00	----	0.98		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	5100.00	----	0.98				
Total HpCDD	23000.00	----	0.98				
OCDF	1900.00	----	2.00				
OCDD	43000.00	----	2.00				

Results reported on a dry weight basis

Conc = Concentration (Totals include 2,3,7,8-substituted isomers)

EMPC = Estimated Maximum Possible Concentration

A = Detection Limit based on signal-to-noise measurement

J = Concentration detected is below the calibration range

B = Less than 10 times higher than method blank level

P = Recovery outside of target range

Nn = Value obtained from additional analysis

EMPC values were excluded from the TEQ calculations.

LRL = Lower Reporting Limit

I = Interference

E = PCDE Interference

S = Saturated signal

ND = Not Detected

NA = Not Applicable

NC = Not Calculated

* = See Discussion

Report No.....1042590

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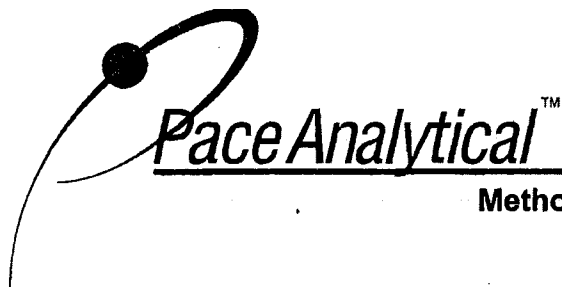
Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

APPENDIX C

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

Method 8290 Blank Analysis Results

Client - PACE Wisconsin

Lab Sample ID	BLANK-11597	Matrix	Solid
Filename	F61205B_03	Dilution	NA
Total Amount Extracted	10.4 g	Extracted	12/01/2006
ICAL Date	09/10/2006	Analyzed	12/05/2006 16:24
CCal Filename(s)	F61205A_09 & F61205B_07	Injected By	SMT

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	0.066	2,3,7,8-TCDF-13C	2.00	99
Total TCDF	ND	----	0.066	2,3,7,8-TCDD-13C	2.00	99
				1,2,3,7,8-PeCDF-13C	2.00	87
2,3,7,8-TCDD	ND	----	0.074	2,3,4,7,8-PeCDF-13C	2.00	99
Total TCDD	ND	----	0.074	1,2,3,7,8-PeCDD-13C	2.00	131
				1,2,3,4,7,8-HxCDF-13C	2.00	97
1,2,3,7,8-PeCDF	ND	----	0.079	1,2,3,6,7,8-HxCDF-13C	2.00	92
2,3,4,7,8-PeCDF	0.058	----	0.055 J	2,3,4,6,7,8-HxCDF-13C	2.00	107
Total PeCDF	0.058	----	0.067	1,2,3,7,8,9-HxCDF-13C	2.00	96
				1,2,3,4,7,8-HxCDD-13C	2.00	103
1,2,3,7,8-PeCDD	ND	----	0.087	1,2,3,6,7,8-HxCDD-13C	2.00	100
Total PeCDD	ND	----	0.087	1,2,3,4,6,7,8-HpCDF-13C	2.00	106
				1,2,3,4,7,8,9-HpCDF-13C	2.00	100
1,2,3,4,7,8-HxCDF	ND	----	0.087	1,2,3,4,6,7,8-HpCDD-13C	2.00	132
1,2,3,6,7,8-HxCDF	ND	----	0.081	OCDD-13C	4.00	132
2,3,4,6,7,8-HxCDF	ND	----	0.056			
1,2,3,7,8,9-HxCDF	ND	----	0.073	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----	0.074	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	0.110	2,3,7,8-TCDD-37Cl4	0.20	83
1,2,3,6,7,8-HxCDD	ND	----	0.100			
1,2,3,7,8,9-HxCDD	ND	----	0.098			
Total HxCDD	ND	----	0.100			
1,2,3,4,6,7,8-HpCDF	ND	----	0.092	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	0.093	Equivalence: 0.032 ng/Kg		
Total HpCDF	ND	----	0.093	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	0.180	----	0.140 J			
Total HpCDD	0.180	----	0.140 J			
OCDF	----	0.65	0.180 I			
OCDD	0.940	----	0.200 J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
LOD = Limit of Detection
J = Concentration detected is below the calibration range
P = Recovery outside of target range
A = Detection Limit based on signal-to-noise measurement

I = Interference
E = PCDE Interference
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion

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Method 8290 Analysis Results

Client - PACE Wisconsin

Client's Sample ID	S-2 0-6 IN		
Lab Sample ID	878713002		
Filename	F61204B_11		
Injected By	SMT		
Total Amount Extracted	10.6 g	Matrix	Solid
% Moisture	4.7	Dilution	NA
Dry Weight Extracted	10.1 g	Collected	11/20/2006
ICAL Date	09/10/2006	Received	11/28/2006
CCal Filename(s)	F61204A_05 & F61204B_16	Extracted	12/01/2006
Method Blank ID	BLANK-11597	Analyzed	12/04/2006 23:55

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.82	----	0.14 J	2,3,7,8-TCDF-13C	2.00	99
Total TCDF	3.70	----	0.14	2,3,7,8-TCDD-13C	2.00	93
				1,2,3,7,8-PeCDF-13C	2.00	109
2,3,7,8-TCDD	2.50	----	0.37	2,3,4,7,8-PeCDF-13C	2.00	115
Total TCDD	30.00	----	0.37	1,2,3,7,8-PeCDD-13C	2.00	137 P
				1,2,3,4,7,8-HxCDF-13C	2.00	110
1,2,3,7,8-PeCDF	5.60	----	0.89	1,2,3,6,7,8-HxCDF-13C	2.00	80
2,3,4,7,8-PeCDF	9.50	----	0.52	2,3,4,6,7,8-HxCDF-13C	2.00	97
Total PeCDF	84.00	----	0.71	1,2,3,7,8,9-HxCDF-13C	2.00	97
				1,2,3,4,7,8-HxCDD-13C	2.00	115
1,2,3,7,8-PeCDD	21.00	----	0.23	1,2,3,6,7,8-HxCDD-13C	2.00	79
Total PeCDD	180.00	----	0.23	1,2,3,4,6,7,8-HpCDF-13C	2.00	94
				1,2,3,4,7,8,9-HpCDF-13C	2.00	87
1,2,3,4,7,8-HxCDF	41.00	----	1.40	1,2,3,4,6,7,8-HpCDD-13C	2.00	127
1,2,3,6,7,8-HxCDF	-----	21	2.60 E	OCDD-13C	4.00	130
2,3,4,6,7,8-HxCDF	21.00	----	2.70			
1,2,3,7,8,9-HxCDF	13.00	----	1.30	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	310.00	----	2.00	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	59.00	----	1.60	2,3,7,8-TCDD-37Cl4	0.20	84
1,2,3,6,7,8-HxCDD	160.00	----	1.80			
1,2,3,7,8,9-HxCDD	90.00	----	1.90			
Total HxCDD	2500.00	----	1.80			
1,2,3,4,6,7,8-HpCDF	570.00	----	1.90	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	56.00	----	1.40	Equivalence: 160 ng/Kg		
Total HpCDF	790.00	----	1.70	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	5000.00	----	4.20			
Total HpCDD	24000.00	----	4.20			
OCDF	1800.00	----	0.58			
OCDD	41000.00	----	0.64			

Results reported on a dry weight basis

Conc = Concentration (Totals include 2,3,7,8-substituted isomers)

EMPC = Estimated Maximum Possible Concentration

A = Detection Limit based on signal-to-noise measurement

J = Concentration detected is below the calibration range

B = Less than 10 times higher than method blank level

P = Recovery outside of target range

Nn = Value obtained from additional analysis

EMPC values were excluded from the TEQ calculations.

LOD = Limit of Detection

I = Interference

E = PCDE Interference

S = Saturated signal

ND = Not Detected

NA = Not Applicable

NC = Not Calculated

* = See Discussion

Report No.....1042590

REPORT OF LABORATORY ANALYSIS

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Method 8290 Analysis Results

Client - PACE Wisconsin

Client's Sample ID	S-3 0-6 IN		
Lab Sample ID	878713003		
Filename	F61204B_12		
Injected By	SMT		
Total Amount Extracted	11.1 g	Matrix	Solid
% Moisture	9.9	Dilution	NA
Dry Weight Extracted	10.00 g	Collected	11/20/2006
ICAL Date	09/10/2006	Received	11/28/2006
CCal Filename(s)	F61204A_05 & F61204B_16	Extracted	12/01/2006
Method Blank ID	BLANK-11597	Analyzed	12/05/2006 00:45

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	2.1	0.65	E	2,3,7,8-TCDF-13C	2.00	92
Total TCDF	0.80	-----	0.65	J	2,3,7,8-TCDD-13C	2.00	95
					1,2,3,7,8-PeCDF-13C	2.00	74
2,3,7,8-TCDD	ND	-----	1.30		2,3,4,7,8-PeCDF-13C	2.00	78
Total TCDD	ND	-----	1.30		1,2,3,7,8-PeCDD-13C	2.00	96
					1,2,3,4,7,8-HxCDF-13C	2.00	107
1,2,3,7,8-PeCDF	-----	1.4	0.92	I	1,2,3,6,7,8-HxCDF-13C	2.00	97
2,3,4,7,8-PeCDF	-----	2.6	1.50	I	2,3,4,6,7,8-HxCDF-13C	2.00	81
Total PeCDF	43.00	-----	1.20		1,2,3,7,8,9-HxCDF-13C	2.00	82
					1,2,3,4,7,8-HxCDD-13C	2.00	91
1,2,3,7,8-PeCDD	5.30	-----	0.69		1,2,3,6,7,8-HxCDD-13C	2.00	80
Total PeCDD	50.00	-----	0.69		1,2,3,4,6,7,8-HpCDF-13C	2.00	79
					1,2,3,4,7,8,9-HpCDF-13C	2.00	77
1,2,3,4,7,8-HxCDF	-----	33.0	1.40	I	1,2,3,4,6,7,8-HpCDD-13C	2.00	115
1,2,3,6,7,8-HxCDF	-----	150.0	0.84	E	OCDD-13C	4.00	143 P
2,3,4,6,7,8-HxCDF	4.90	-----	0.86	J			
1,2,3,7,8,9-HxCDF	11.00	-----	0.99		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	440.00	-----	1.00		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	23.00	-----	0.70		2,3,7,8-TCDD-37Cl4	0.20	92
1,2,3,6,7,8-HxCDD	86.00	-----	0.62				
1,2,3,7,8,9-HxCDD	27.00	-----	0.73				
Total HxCDD	2500.00	-----	0.68				
1,2,3,4,6,7,8-HpCDF	420.00	-----	2.00		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	40.00	-----	4.70		Equivalence: 99 ng/Kg		
Total HpCDF	2100.00	-----	3.30		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	4100.00	-----	0.90				
Total HpCDD	26000.00	-----	0.90				
OCDF	1400.00	-----	0.74				
OCDD	33000.00	-----	0.95				

Results reported on a dry weight basis

Conc = Concentration (Totals include 2,3,7,8-substituted isomers)

EMPC = Estimated Maximum Possible Concentration

A = Detection Limit based on signal-to-noise measurement

J = Concentration detected is below the calibration range

B = Less than 10 times higher than method blank level

P = Recovery outside of target range

Nn = Value obtained from additional analysis

EMPC values were excluded from the TEQ calculations.

LOD = Limit of Detection

I = Interference

E = PCDE Interference

S = Saturated signal

ND = Not Detected

NA = Not Applicable

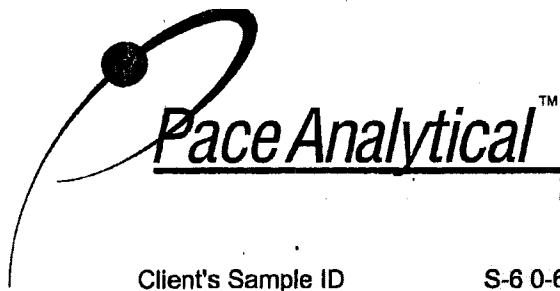
NC = Not Calculated

* = See Discussion

Report No.....1042590

REPORT OF LABORATORY ANALYSIS

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Method 8290 Analysis Results

Client - PACE Wisconsin

Client's Sample ID	S-6 0-6 IN		
Lab Sample ID	878713006		
Filename	F61205B_05		
Injected By	SMT		
Total Amount Extracted	10.3 g	Matrix	Solid
% Moisture	2.8	Dilution	NA
Dry Weight Extracted	10.0 g	Collected	11/20/2006
ICAL Date	09/10/2006	Received	11/28/2006
CCal Filename(s)	F61205A_09 & F61205B_07	Extracted	12/01/2006
Method Blank ID	BLANK-11597	Analyzed	12/05/2006 18:02

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	0.120	2,3,7,8-TCDF-13C	2.00	97
Total TCDF	ND	----	0.120	2,3,7,8-TCDD-13C	2.00	96
				1,2,3,7,8-PeCDF-13C	2.00	101
2,3,7,8-TCDD	ND	----	0.180	2,3,4,7,8-PeCDF-13C	2.00	104
Total TCDD	ND	----	0.180	1,2,3,7,8-PeCDD-13C	2.00	123
				1,2,3,4,7,8-HxCDF-13C	2.00	107
1,2,3,7,8-PeCDF	ND	----	0.180	1,2,3,6,7,8-HxCDF-13C	2.00	87
2,3,4,7,8-PeCDF	ND	----	0.130	2,3,4,6,7,8-HxCDF-13C	2.00	102
Total PeCDF	1.30	----	0.150 J	1,2,3,7,8,9-HxCDF-13C	2.00	96
				1,2,3,4,7,8-HxCDD-13C	2.00	113
1,2,3,7,8-PeCDD	----	0.38	0.110 I	1,2,3,6,7,8-HxCDD-13C	2.00	87
Total PeCDD	1.30	----	0.110 J	1,2,3,4,6,7,8-HpCDF-13C	2.00	106
				1,2,3,4,7,8,9-HpCDF-13C	2.00	97
1,2,3,4,7,8-HxCDF	0.46	----	0.150 J	1,2,3,4,6,7,8-HpCDD-13C	2.00	134
1,2,3,6,7,8-HxCDF	----	0.26	0.094 I	OCDD-13C	4.00	119
2,3,4,6,7,8-HxCDF	0.34	----	0.130 J			
1,2,3,7,8,9-HxCDF	ND	----	0.130	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	4.40	----	0.120 J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	0.90	----	0.200 J	2,3,7,8-TCDD-37Cl4	0.20	84
1,2,3,6,7,8-HxCDD	1.90	----	0.290 J			
1,2,3,7,8,9-HxCDD	1.40	----	0.270 J			
Total HxCDD	25.00	----	0.250			
1,2,3,4,6,7,8-HpCDF	7.10	----	0.210	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	----	0.43	0.240 I	Equivalence: 1.5 ng/Kg		
Total HpCDF	22.00	----	0.220	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	52.00	----	0.410			
Total HpCDD	200.00	----	0.410			
OCDF	23.00	----	0.200			
OCDD	420.00	----	0.290			

Results reported on a dry weight basis

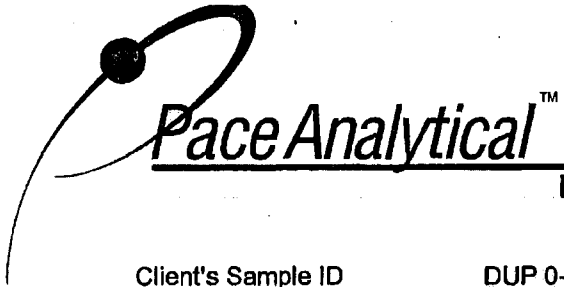
Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
A = Detection Limit based on signal-to-noise measurement
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis
EMPC values were excluded from the TEQ calculations.

LOD = Limit of Detection
I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion

Report No.....1042590

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Method 8290 Analysis Results

Client - PACE Wisconsin

Client's Sample ID	DUP 0-6 IN		
Lab Sample ID	878713007		
Filename	F61204B_14		
Injected By	SMT		
Total Amount Extracted	10.6 g	Matrix	Solid
% Moisture	3.9	Dilution	NA
Dry Weight Extracted	10.2 g	Collected	11/20/2006
ICAL Date	09/10/2006	Received	11/28/2006
CCal Filename(s)	F61204A_05 & F61204B_16	Extracted	12/01/2006
Method Blank ID	BLANK-11597	Analyzed	12/05/2006 02:22

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LOD ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.67	----	0.30 J	2,3,7,8-TCDF-13C	2.00	101
Total TCDF	3.80	----	0.30	2,3,7,8-TCDD-13C	2.00	104
				1,2,3,7,8-PeCDF-13C	2.00	109
2,3,7,8-TCDD	3.10	----	0.33	2,3,4,7,8-PeCDF-13C	2.00	115
Total TCDD	32.00	----	0.33	1,2,3,7,8-PeCDD-13C	2.00	142 P
				1,2,3,4,7,8-HxCDF-13C	2.00	105
1,2,3,7,8-PeCDF	-----	3.4	1.10 I	1,2,3,6,7,8-HxCDF-13C	2.00	95
2,3,4,7,8-PeCDF	9.80	----	1.10	2,3,4,6,7,8-HxCDF-13C	2.00	98
Total PeCDF	85.00	----	1.10	1,2,3,7,8,9-HxCDF-13C	2.00	98
				1,2,3,4,7,8-HxCDD-13C	2.00	110
1,2,3,7,8-PeCDD	32.00	----	0.42	1,2,3,6,7,8-HxCDD-13C	2.00	90
Total PeCDD	190.00	----	0.42	1,2,3,4,6,7,8-HpCDF-13C	2.00	89
				1,2,3,4,7,8,9-HpCDF-13C	2.00	81
1,2,3,4,7,8-HxCDF	58.00	----	1.90	1,2,3,4,6,7,8-HpCDD-13C	2.00	125
1,2,3,6,7,8-HxCDF	14.00	----	1.90	OCDD-13C	4.00	120
2,3,4,6,7,8-HxCDF	-----	20.0	2.70 E			
1,2,3,7,8,9-HxCDF	14.00	----	2.20	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	790.00	----	2.20	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	60.00	----	1.80	2,3,7,8-TCDD-37Cl4	0.20	93
1,2,3,6,7,8-HxCDD	160.00	----	1.20			
1,2,3,7,8,9-HxCDD	94.00	----	0.89			
Total HxCDD	2800.00	----	1.30			
1,2,3,4,6,7,8-HpCDF	590.00	----	2.30	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	60.00	----	2.30	Equivalence: 170 ng/Kg		
Total HpCDF	2600.00	----	2.30	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	5100.00	----	0.58			
Total HpCDD	23000.00	----	0.58			
OCDF	1900.00	----	0.97			
OCDD	43000.00	----	0.49			

Results reported on a dry weight basis
 Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
 EMPC = Estimated Maximum Possible Concentration
 A = Detection Limit based on signal-to-noise measurement
 J = Concentration detected is below the calibration range
 B = Less than 10 times higher than method blank level
 P = Recovery outside of target range
 Nn = Value obtained from additional analysis
 EMPC values were excluded from the TEQ calculations.

LOD = Limit of Detection
 I = Interference
 E = PCDE Interference
 S = Saturated signal
 ND = Not Detected
 NA = Not Applicable
 NC = Not Calculated
 * = See Discussion

Report No.....1042590

REPORT OF LABORATORY ANALYSIS

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Method 8290 Laboratory Control Spike Results

Client - PACE Wisconsin

Lab Sample ID	LCS-11598	Matrix	Solid
Filename	F61204B_01	Dilution	NA
Total Amount Extracted	10.4 g	Extracted	12/01/2006
ICAL Date	09/10/2006	Analyzed	12/04/2006 15:44
CCal Filename(s)	F61204A_05 & F61204B_16	Injected By	SMT
Method Blank ID	BLANK-11597		

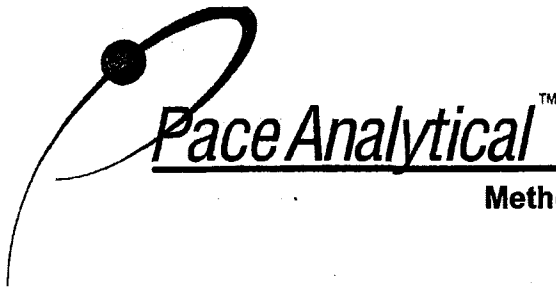
Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.16	79	2,3,7,8-TCDF-13C	2.00	119
				2,3,7,8-TCDD-13C	2.00	90
				1,2,3,7,8-PeCDF-13C	2.00	87
2,3,7,8-TCDD	0.20	0.18	88	2,3,4,7,8-PeCDF-13C	2.00	108
				1,2,3,7,8-PeCDD-13C	2.00	159 P
				1,2,3,4,7,8-HxCDF-13C	2.00	98
1,2,3,7,8-PeCDF	1.00	0.96	96	1,2,3,6,7,8-HxCDF-13C	2.00	94
2,3,4,7,8-PeCDF	1.00	0.96	96	2,3,4,6,7,8-HxCDF-13C	2.00	109
1,2,3,7,8-PeCDD	1.00	0.78	78	1,2,3,7,8,9-HxCDF-13C	2.00	100
				1,2,3,4,7,8-HxCDD-13C	2.00	106
				1,2,3,6,7,8-HxCDD-13C	2.00	97
1,2,3,4,7,8-HxCDF	1.00	0.82	82	1,2,3,4,6,7,8-HpCDF-13C	2.00	109
1,2,3,6,7,8-HxCDF	1.00	0.90	90	1,2,3,4,7,8,9-HpCDF-13C	2.00	118
2,3,4,6,7,8-HxCDF	1.00	0.91	91	1,2,3,4,6,7,8-HpCDD-13C	2.00	141 P
1,2,3,7,8,9-HxCDF	1.00	0.88	88	OCDD-13C	4.00	150 P
1,2,3,4,7,8-HxCDD	1.00	0.88	88	1,2,3,4-TCDD-13C	2.00	NA
				1,2,3,7,8,9-HxCDD-13C	2.00	NA
				2,3,7,8-TCDD-37Cl4	0.20	79
1,2,3,6,7,8-HxCDD	1.00	0.91	91			
1,2,3,7,8,9-HxCDD	1.00	0.90	90			
1,2,3,4,6,7,8-HpCDF	1.00	0.89	89			
				1,2,3,4,7,8,9-HpCDF	1.00	0.99
1,2,3,4,6,7,8-HpCDD	1.00	0.80	80			
OCDF	2.00	1.48	74			
OCDD	2.00	1.73	87			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
P = Recovery outside of target range
X = Background subtracted value
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

Report No.....1042590

REPORT OF LABORATORY ANALYSIS

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Method 8290 Spike Sample Results

Client - PACE Wisconsin

Client's Sample ID	S-2 0-6 IN-MS		
Lab Sample ID	878713002-MS		
Filename	F61204B_02	Matrix	Solid
Total Amount Extracted	10.5 g	Dilution	NA
ICAL Date	09/10/2006	Extracted	12/01/2006
CCal Filename(s)	F61204A_05 & F61204B_16	Analyzed	12/04/2006 16:33
Method Blank ID	BLANK-11597	Injected By	SMT

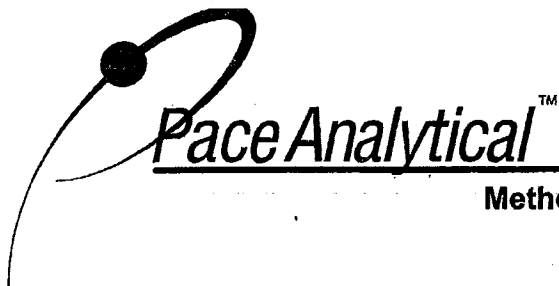
Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.19	96	2,3,7,8-TCDF-13C	2.00	98
				2,3,7,8-TCDD-13C	2.00	98
				1,2,3,7,8-PeCDF-13C	2.00	104
2,3,7,8-TCDD	0.20	0.21	104	2,3,4,7,8-PeCDF-13C	2.00	108
				1,2,3,7,8-PeCDD-13C	2.00	130
				1,2,3,4,7,8-HxCDF-13C	2.00	112
1,2,3,7,8-PeCDF	1.00	0.99	99	1,2,3,6,7,8-HxCDF-13C	2.00	73
2,3,4,7,8-PeCDF	1.00	1.09	109	2,3,4,6,7,8-HxCDF-13C	2.00	96
				1,2,3,7,8,9-HxCDF-13C	2.00	92
				1,2,3,4,7,8-HxCDD-13C	2.00	104
1,2,3,7,8-PeCDD	1.00	1.20	120	1,2,3,6,7,8-HxCDD-13C	2.00	83
				1,2,3,4,6,7,8-HpCDF-13C	2.00	98
				1,2,3,4,7,8,9-HpCDF-13C	2.00	84
1,2,3,4,7,8-HxCDF	1.00	1.26	126	1,2,3,4,6,7,8-HpCDD-13C	2.00	129
1,2,3,6,7,8-HxCDF	1.00	1.22	122	OCDD-13C	4.00	135
2,3,4,6,7,8-HxCDF	1.00	1.21	121			
1,2,3,7,8,9-HxCDF	1.00	1.13	113	1,2,3,4-TCDD-13C	2.00	NA
				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.00	1.63	163	2,3,7,8-TCDD-37Cl4	0.20	92
1,2,3,6,7,8-HxCDD	1.00	2.82	282			
1,2,3,7,8,9-HxCDD	1.00	2.15	215			
1,2,3,4,6,7,8-HpCDF	1.00	7.07	707			
1,2,3,4,7,8,9-HpCDF	1.00	1.72	172			
1,2,3,4,6,7,8-HpCDD	1.00	57.80	5780			
OCDF	2.00	21.40	1070			
OCDD	2.00	439.61	21980 N2			

Qs = Quantity Spiked
 Qm = Quantity Measured
 Rec. = Recovery (Expressed as Percent)
 P = Recovery outside of target range of 40-135%
 X = Background subtracted value
 E = PCDE Interference
 Nn = Value obtained from additional analysis
 NA = Not Applicable
 * = See Discussion

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Method 8290 Spike Sample Results

Client - PACE Wisconsin

Client's Sample ID	S-2 0-6 IN-MSD	Matrix	Solid
Lab Sample ID	878713002-MSD	Dilution	NA
Filename	F61204B_03	Extracted	12/01/2006
Total Amount Extracted	10.6 g	Analyzed	12/04/2006 17:22
ICAL Date	09/10/2006	Injected By	SMT
CCal Filename(s)	F61204A_05 & F61204B_16		
Method Blank ID	BLANK-11597		

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.17	84	2,3,7,8-TCDF-13C	2.00	101
				2,3,7,8-TCDD-13C	2.00	101
				1,2,3,7,8-PeCDF-13C	2.00	109
2,3,7,8-TCDD	0.20	0.18	91	2,3,4,7,8-PeCDF-13C	2.00	116
				1,2,3,7,8-PeCDD-13C	2.00	140 P
				1,2,3,4,7,8-HxCDF-13C	2.00	119
1,2,3,7,8-PeCDF	1.00	0.90	90	1,2,3,6,7,8-HxCDF-13C	2.00	84
2,3,4,7,8-PeCDF	1.00	1.00	100	2,3,4,6,7,8-HxCDF-13C	2.00	99
				1,2,3,7,8,9-HxCDF-13C	2.00	97
				1,2,3,4,7,8-HxCDD-13C	2.00	121
1,2,3,7,8-PeCDD	1.00	1.08	108	1,2,3,6,7,8-HxCDD-13C	2.00	82
				1,2,3,4,6,7,8-HpCDF-13C	2.00	94
				1,2,3,4,7,8,9-HpCDF-13C	2.00	86
1,2,3,4,7,8-HxCDF	1.00	1.01	101	1,2,3,4,6,7,8-HpCDD-13C	2.00	123
1,2,3,6,7,8-HxCDF	1.00	1.07	107	OCDD-13C	4.00	129
2,3,4,6,7,8-HxCDF	1.00	1.05	105			
1,2,3,7,8,9-HxCDF	1.00	0.96	96	1,2,3,4-TCDD-13C	2.00	NA
				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.00	1.39	139	2,3,7,8-TCDD-37Cl4	0.20	86
1,2,3,6,7,8-HxCDD	1.00	2.25	225			
1,2,3,7,8,9-HxCDD	1.00	1.49	149			
1,2,3,4,6,7,8-HpCDF	1.00	5.69	569			
1,2,3,4,7,8,9-HpCDF	1.00	1.45	145			
1,2,3,4,6,7,8-HpCDD	1.00	43.36	4336			
OCDF	2.00	17.05	853			
OCDD	2.00	356.12	17806			

Qs = Quantity Spiked
 Qm = Quantity Measured
 Rec. = Recovery (Expressed as Percent)
 P = Recovery outside of target range of 40-135%
 X = Background subtracted value
 E = PCDE Interference
 Nn = Value obtained from additional analysis
 NA = Not Applicable
 * = See Discussion

Report No.....1042590

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, Inc.



Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

Method 8290 Spike Sample Results

Client - PACE Wisconsin

Client Sample ID S-2 0-6 IN
Lab Sample ID 878713002
MS ID 878713002-MS
MSD ID 878713002-MSD

Sample Filename F61204B_11
MS Filename F61204B_02
MSD Filename F61204B_03

Dry Weights
Sample Amount 10.1 g
MS Amount 10.0 g
MSD Amount 10.1 g

Analyte	Sample Conc. ng/Kg	MS/MSD Qs (ng)	MS Qm (ng)	MSD Qm (ng)	RPD	Background Subtracted		
						MS % Rec.	MSD % Rec.	RPD
2,3,7,8-TCDF	0.817	0.20	0.19	0.17	14.2	92	79	15.0
2,3,7,8-TCDD	2.456	0.20	0.21	0.18	12.8	91	79	14.8
1,2,3,7,8-PeCDF	5.591	1.00	0.99	0.90	9.7	94	84	10.4
2,3,4,7,8-PeCDF	9.488	1.00	1.09	1.00	9.2	100	90	10.3
1,2,3,7,8-PeCDD	20.825	1.00	1.20	1.08	11.0	100	87	13.7
1,2,3,4,7,8-HxCDF	40.718	1.00	1.26	1.01	21.6	85	60	34.4
1,2,3,6,7,8-HxCDF	0.000	1.00	1.22	1.07	12.8	101	86	16.0
2,3,4,6,7,8-HxCDF	21.034	1.00	1.21	1.05	14.8	100	83	18.5
1,2,3,7,8,9-HxCDF	12.875	1.00	1.13	0.96	16.3	100	83	18.8
1,2,3,4,7,8-HxCDD	58.672	1.00	1.63	1.39	15.9	104	80	26.8
1,2,3,6,7,8-HxCDD	161.820	1.00	2.82	2.25	22.6	119	60	65.6
1,2,3,7,8,9-HxCDD	90.439	1.00	2.15	1.49	36.3	124	57	74.0
1,2,3,4,6,7,8-HpCDF	573.412	1.00	7.07	5.69	21.7	131	0	200.0
1,2,3,4,7,8,9-HpCDF	55.976	1.00	1.72	1.45	17.6	116	88	27.9
1,2,3,4,6,7,8-HpCDD	4981.697	1.00	57.80	43.36	28.6	776	0	200.0
OCDF	1836.697	2.00	21.40	17.05	22.6	147	0	200.0
OCDD	41210.715	2.00	439.61	356.12	21.0	1283	0	200.0

Definitions

MS = Matrix Spike
MSD = Matrix Spike Duplicate
Qm = Quantity Measured
Qs = Quantity Spiked
% Rec. = Percent Recovery
RPD = Relative Percent Difference

CDD = Chlorinated dibenzo-p-dioxin
CDF = Chlorinated dibenzo-p-furan
T = Tetra
Pe = Penta
Hx = Hexa
Hp = Hepta
O = Octa

(Please Print Clearly)

Company Name: KU Resources
 Branch/Location:
 Project Contact: PAT Mc CARNEY
 Phone: 227-8212
 Project Number: KI.0630350PC.P
 Project Name: KOPPERS
 Project State: WI
 Sampled By (Print): PAT Mc CARNEY
 Sampled By (Sign): Pat McCarney
 PO #:
 Regulatory Program:



UPPER MIDWEST REGION

MN: 612-607-1700 WI: 920-469-2436

Page 1 of

COC No. 015465

CHAIN OF CUSTODY

***Preservation Codes**
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED? (YES/NO)
 PRESERVATION (CODE)*

Y/N	Pick Letter	Analysis Requested																
	A	NEUTRAL CHLOROPHENOL																
	A	CHLOROPHENOL																
	A	COPPER, ARSENIC																
	F	PAH																
	A	VOC																
	A	DIOXIN																

Quote #:
 Mail To Contact: PAT Mc CARNEY
 Mail To Company: KU RESOURCES, INC
 Mail To Address: 419 BRATCOE DR
66, WI 54302
 Invoice To Contact:
 Invoice To Company: SAME
 Invoice To Address:
 Invoice To Phone:
 CLIENT COMMENTS
 LAB COMMENTS (Lab Use Only)
 Profile #

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID		COLLECTION		MATRIX	Y/N	Pick Letter	Analysis Requested											
			DATE	TIME															
001	S-1	0-6"	11/20	1145	S			X	X	X	X								
002	S-2	0-6"		1215															
003	S-3	0-6"		1240															
004	S-4	0-6"		1255															
005	S-5	0-6"		1320															
006	S-6	0-6"		1345															
007	DUP	0-6"																	
008	TRIP BLANK																		

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)
 Date Needed:

Relinquished By: Pat McCarney Date/Time: 11/22 0800
 Relinquished By: Date/Time:
 Relinquished By: Date/Time:
 Relinquished By: Date/Time:
 Relinquished By: Date/Time:

Received By: Sharon Kestel Date/Time: 11/22/06 0800
 Received By: Date/Time:
 Received By: Date/Time:
 Received By: Date/Time:
 Received By: Date/Time:

PACE Project No. 878713
 Receipt Temp = 20.5 °C
 Sample Receipt pH OK / Adjusted
 Cooler Custody Seal Present / Not Present Intact / Not Intact

Transmit Prelim Rush Results by (complete what you want):
 Email #1:
 Email #2:
 Telephone:
 Fax:

Samples on HOLD are subject to special pricing and release of liability

Attachment 4
Laboratory Analytical Data Groundwater





1241 Bellevue Street, Suite 9
Green Bay, WI 54302
920-469-2436, Fax: 920-469-8827

Analytical Report Number: 878904

Client: KU RESOURCES

Lab Contact: Eric Bullock

Project Name: KOPPERS SITE

Project Number: KI.06303SDPC.P

Lab Sample Number	Field ID	Matrix	Collection Date
878904-001	TW-1	GW	11/28/06 10:10
878904-002	TW-2	GW	11/28/06 10:54
878904-003	DP-01	GW	11/28/06 11:14
878904-004	TRIP BLK	GW	11/28/06 09:45

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample comments. Release of this final report is authorized by Laboratory management, as is verified by the following signature. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc. The sample results relate only to the analytes of interest tested.

Approval Signature

12/6/06

Date

**Pace Analytical
Services, Inc.**

Analytical Report Number: 878904

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : KU RESOURCES
Project Name : KOPPERS SITE
Project Number : KI.06303SDPC.P
Field ID : TW-1

Matrix Type : GROUNDWATER
Collection Date : 11/28/06
Report Date : 12/06/06
Lab Sample Number : 878904-001

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Arsenic - Dissolved	0.33	0.13	0.42		1	ug/L	Q	12/05/06	SW846 3020A	SW846 6020
Chromium - Dissolved	0.50	0.32	1.1		1	ug/L	Q	12/05/06	SW846 3020A	SW846 6020
Copper - Dissolved	6.7	1.1	3.7		1	ug/L	A	12/02/06	SW846 3010A	SW846 6010B

VOLATILES

Prep Date: 12/04/06

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,1,1,2-Tetrachloroethane	< 0.92	0.92	3.1		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
1,1,1-Trichloroethane	< 0.90	0.90	3.0		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.20	0.20	0.67		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	< 0.42	0.42	1.4		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
1,1-Dichloroethane	< 0.75	0.75	2.5		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
1,1-Dichloroethene	< 0.57	0.57	1.9		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
1,1-Dichloropropene	< 0.75	0.75	2.5		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	< 0.74	0.74	2.5		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
1,2,3-Trichloropropane	< 0.99	0.99	3.3		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	< 0.97	0.97	3.2		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	< 0.97	0.97	3.2		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.87	0.87	2.9		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
1,2-Dibromoethane	< 0.56	0.56	1.9		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	< 0.83	0.83	2.8		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
1,2-Dichloroethane	< 0.36	0.36	1.2		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
1,2-Dichloropropane	< 0.46	0.46	1.5		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	< 0.83	0.83	2.8		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	< 0.87	0.87	2.9		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
1,3-Dichloropropane	< 0.61	0.61	2.0		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	< 0.95	0.95	3.2		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
2,2-Dichloropropane	< 0.62	0.62	2.1		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
2-Chlorotoluene	< 0.85	0.85	2.8		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
4-Chlorotoluene	< 0.74	0.74	2.5		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
Benzene	< 0.41	0.41	1.4		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
Bromobenzene	< 0.82	0.82	2.7		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
Bromochloromethane	< 0.97	0.97	3.2		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
Bromodichloromethane	< 0.56	0.56	1.9		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
Bromoform	< 0.94	0.94	3.1		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
Bromomethane	< 0.91	0.91	3.0		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
Carbon Tetrachloride	< 0.49	0.49	1.6		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
Chlorobenzene	< 0.41	0.41	1.4		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
Chlorodibromomethane	< 0.81	0.81	2.7		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
Chloroethane	< 0.97	0.97	3.2		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
Chloroform	< 0.37	0.37	1.2		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
Chloromethane	< 0.24	0.24	0.80		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
cis-1,2-Dichloroethene	< 0.83	0.83	2.8		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
cis-1,3-Dichloropropene	< 0.19	0.19	0.63		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
Dibromomethane	< 0.60	0.60	2.0		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	< 0.99	0.99	3.3		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
Diisopropyl Ether	< 0.76	0.76	2.5		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
Ethylbenzene	< 0.54	0.54	1.8		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
Fluorotrichloromethane	< 0.79	0.79	2.6		1	ug/L		12/04/06	SW846 5030B	SW846 8260B

**Pace Analytical
Services, Inc.**

Analytical Report Number: 878904

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : KU RESOURCES
Project Name : KOPPERS SITE
Project Number : KI.06303SDPC.P
Field ID : TW-1

Matrix Type : GROUNDWATER
Collection Date : 11/28/06
Report Date : 12/06/06
Lab Sample Number : 878904-001

VOLATILES

Prep Date: 12/04/06

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Hexachlorobutadiene	< 0.67	0.67	2.2		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
Isopropylbenzene	< 0.59	0.59	2.0		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
Methylene Chloride	< 0.43	0.43	1.4		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 0.61	0.61	2.0		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
Naphthalene	< 0.74	0.74	2.5		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
n-Butylbenzene	< 0.93	0.93	3.1		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
n-Propylbenzene	< 0.81	0.81	2.7		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
p-Isopropyltoluene	< 0.67	0.67	2.2		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
s-Butylbenzene	< 0.89	0.89	3.0		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
Styrene	< 0.86	0.86	2.9		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
t-Butylbenzene	< 0.97	0.97	3.2		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
Tetrachloroethene	< 0.45	0.45	1.5		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
Toluene	< 0.67	0.67	2.2		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	< 0.89	0.89	3.0		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
trans-1,3-Dichloropropene	< 0.19	0.19	0.63		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
Trichloroethene	< 0.48	0.48	1.6		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
Vinyl Chloride	< 0.18	0.18	0.60		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
Xylene, m + p	< 1.8	1.8	6.0		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
Xylene, o	< 0.83	0.83	2.8		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
Surrogate		LCL	UCL							
4-Bromofluorobenzene	78	64	132		1	%		12/04/06	SW846 5030B	SW846 8260B
Toluene-d8	81	73	127		1	%		12/04/06	SW846 5030B	SW846 8260B
Dibromofluoromethane	83	68	122		1	%		12/04/06	SW846 5030B	SW846 8260B

PAH/ PNA

Prep Date: 12/01/06

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene	0.061	0.010	0.034		1	ug/L	B&	12/01/06	SW846 3510C	8270C-SIM
2-Methylnaphthalene	0.038	0.011	0.038		1	ug/L	QB&	12/01/06	SW846 3510C	8270C-SIM
Acenaphthene	7.3	0.17	0.55		20	ug/L	D	12/04/06	SW846 3510C	8270C-SIM
Acenaphthylene	0.40	0.0083	0.028		1	ug/L		12/01/06	SW846 3510C	8270C-SIM
Anthracene	1.3	0.24	0.79		20	ug/L	D	12/04/06	SW846 3510C	8270C-SIM
Benzo(a)anthracene	0.13	0.016	0.053		1	ug/L		12/01/06	SW846 3510C	8270C-SIM
Benzo(a)pyrene	0.071	0.019	0.062		1	ug/L		12/01/06	SW846 3510C	8270C-SIM
Benzo(b)fluoranthene	0.15	0.016	0.053		1	ug/L		12/01/06	SW846 3510C	8270C-SIM
Benzo(ghi)perylene	0.083	0.020	0.066		1	ug/L		12/01/06	SW846 3510C	8270C-SIM
Benzo(k)fluoranthene	0.076	0.020	0.066		1	ug/L		12/01/06	SW846 3510C	8270C-SIM
Chrysene	0.14	0.019	0.064		1	ug/L		12/01/06	SW846 3510C	8270C-SIM
Dibenz(a,h)anthracene	< 0.019	0.019	0.064		1	ug/L		12/01/06	SW846 3510C	8270C-SIM
Fluoranthene	2.2	0.32	1.1		20	ug/L	D	12/04/06	SW846 3510C	8270C-SIM
Fluorene	0.040	0.0092	0.031		1	ug/L	B	12/01/06	SW846 3510C	8270C-SIM
Indeno(1,2,3-cd)pyrene	0.047	0.019	0.064		1	ug/L	Q	12/01/06	SW846 3510C	8270C-SIM
Naphthalene	0.022	0.013	0.042		1	ug/L	QB	12/01/06	SW846 3510C	8270C-SIM
Phenanthrene	0.11	0.012	0.039		1	ug/L	B	12/01/06	SW846 3510C	8270C-SIM
Pyrene	0.44	0.015	0.049		1	ug/L		12/01/06	SW846 3510C	8270C-SIM

**Pace Analytical
Services, Inc.**

Analytical Report Number: 878904

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : KU RESOURCES
Project Name : KOPPERS SITE
Project Number : KI.06303SDPC.P
Field ID : TW-1

Matrix Type : GROUNDWATER
Collection Date : 11/28/06
Report Date : 12/06/06
Lab Sample Number : 878904-001

PAH/ PNA

Prep Date: 12/01/06

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Surrogate		LCL	UCL							
Nitrobenzene-d5	54	10	150		1	%		12/01/06	SW846 3510C	8270C-SIM
2-Fluorobiphenyl	55	20	111		1	%		12/01/06	SW846 3510C	8270C-SIM
Terphenyl-d14	105	44	115		1	%		12/01/06	SW846 3510C	8270C-SIM

SEMIVOLATILES - SPECIAL LIST

Prep Date: 12/01/06

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Surrogate		LCL	UCL							
Pentachlorophenol	75	1.1	3.6		1	ug/L		12/04/06	SW846 3510C	SW846 8270C
2,4,6-Tribromophenol	98	55	131		1	%		12/04/06	SW846 3510C	SW846 8270C

**Pace Analytical
Services, Inc.**

Analytical Report Number: 878904

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : KU RESOURCES
Project Name : KOPPERS SITE
Project Number : KI.06303SDPC.P
Field ID : TW-2

Matrix Type : GROUNDWATER
Collection Date : 11/28/06
Report Date : 12/06/06
Lab Sample Number : 878904-002

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Arsenic - Dissolved	0.70	0.13	0.42		1	ug/L		12/05/06	SW846 3020A	SW846 6020
Chromium - Dissolved	0.32	0.32	1.1		1	ug/L	Q	12/05/06	SW846 3020A	SW846 6020
Copper - Dissolved	4.8	1.1	3.7		1	ug/L	A	12/02/06	SW846 3010A	SW846 6010B

VOLATILES

Prep Date: 12/05/06

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,1,1,2-Tetrachloroethane	< 23	23	77		25	ug/L		12/05/06	SW846 5030B	SW846 8260B
1,1,1-Trichloroethane	< 22	22	75		25	ug/L		12/05/06	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	< 5.0	5.0	17		25	ug/L		12/05/06	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	< 10	10	35		25	ug/L		12/05/06	SW846 5030B	SW846 8260B
1,1-Dichloroethane	< 19	19	62		25	ug/L		12/05/06	SW846 5030B	SW846 8260B
1,1-Dichloroethene	< 14	14	47		25	ug/L		12/05/06	SW846 5030B	SW846 8260B
1,1-Dichloropropene	< 19	19	62		25	ug/L		12/05/06	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	< 18	18	62		25	ug/L		12/05/06	SW846 5030B	SW846 8260B
1,2,3-Trichloropropane	< 25	25	82		25	ug/L		12/05/06	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	< 24	24	81		25	ug/L		12/05/06	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	< 24	24	81		25	ug/L		12/05/06	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	< 22	22	72		25	ug/L		12/05/06	SW846 5030B	SW846 8260B
1,2-Dibromoethane	< 14	14	47		25	ug/L		12/05/06	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	< 21	21	69		25	ug/L		12/05/06	SW846 5030B	SW846 8260B
1,2-Dichloroethane	< 9.0	9.0	30		25	ug/L		12/05/06	SW846 5030B	SW846 8260B
1,2-Dichloropropane	< 12	12	38		25	ug/L		12/05/06	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	< 21	21	69		25	ug/L		12/05/06	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	< 22	22	72		25	ug/L		12/05/06	SW846 5030B	SW846 8260B
1,3-Dichloropropane	< 15	15	51		25	ug/L		12/05/06	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	< 24	24	79		25	ug/L		12/05/06	SW846 5030B	SW846 8260B
2,2-Dichloropropane	< 16	16	52		25	ug/L		12/05/06	SW846 5030B	SW846 8260B
2-Chlorotoluene	< 21	21	71		25	ug/L		12/05/06	SW846 5030B	SW846 8260B
4-Chlorotoluene	< 18	18	62		25	ug/L		12/05/06	SW846 5030B	SW846 8260B
Benzene	< 10	10	34		25	ug/L		12/05/06	SW846 5030B	SW846 8260B
Bromobenzene	< 20	20	68		25	ug/L		12/05/06	SW846 5030B	SW846 8260B
Bromochloromethane	< 24	24	81		25	ug/L		12/05/06	SW846 5030B	SW846 8260B
Bromodichloromethane	< 14	14	47		25	ug/L		12/05/06	SW846 5030B	SW846 8260B
Bromoform	< 24	24	78		25	ug/L		12/05/06	SW846 5030B	SW846 8260B
Bromomethane	< 23	23	76		25	ug/L		12/05/06	SW846 5030B	SW846 8260B
Carbon Tetrachloride	< 12	12	41		25	ug/L		12/05/06	SW846 5030B	SW846 8260B
Chlorobenzene	< 10	10	34		25	ug/L		12/05/06	SW846 5030B	SW846 8260B
Chlorodibromomethane	< 20	20	68		25	ug/L		12/05/06	SW846 5030B	SW846 8260B
Chloroethane	< 24	24	81		25	ug/L		12/05/06	SW846 5030B	SW846 8260B
Chloroform	< 9.2	9.2	31		25	ug/L		12/05/06	SW846 5030B	SW846 8260B
Chloromethane	< 6.0	6.0	20		25	ug/L		12/05/06	SW846 5030B	SW846 8260B
cis-1,2-Dichloroethene	< 21	21	69		25	ug/L		12/05/06	SW846 5030B	SW846 8260B
cis-1,3-Dichloropropene	< 4.8	4.8	16		25	ug/L		12/05/06	SW846 5030B	SW846 8260B
Dibromomethane	< 15	15	50		25	ug/L		12/05/06	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	< 25	25	82		25	ug/L		12/05/06	SW846 5030B	SW846 8260B
Diisopropyl Ether	< 19	19	63		25	ug/L		12/05/06	SW846 5030B	SW846 8260B
Ethylbenzene	< 14	14	45		25	ug/L		12/05/06	SW846 5030B	SW846 8260B
Fluorotrichloromethane	< 20	20	66		25	ug/L		12/05/06	SW846 5030B	SW846 8260B

**Pace Analytical
Services, Inc.**

Analytical Report Number: 878904

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : KU RESOURCES
Project Name : KOPPERS SITE
Project Number : KI.06303SDPC.P
Field ID : TW-2

Matrix Type : GROUNDWATER
Collection Date : 11/28/06
Report Date : 12/06/06
Lab Sample Number : 878904-002

VOLATILES

Prep Date: 12/05/06

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Hexachlorobutadiene	< 17	17	56		25	ug/L		12/05/06	SW846 5030B	SW846 8260B
Isopropylbenzene	< 15	15	49		25	ug/L		12/05/06	SW846 5030B	SW846 8260B
Methylene Chloride	< 11	11	36		25	ug/L		12/05/06	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 15	15	51		25	ug/L		12/05/06	SW846 5030B	SW846 8260B
Naphthalene	3400	18	62		25	ug/L		12/05/06	SW846 5030B	SW846 8260B
n-Butylbenzene	< 23	23	78		25	ug/L		12/05/06	SW846 5030B	SW846 8260B
n-Propylbenzene	< 20	20	68		25	ug/L		12/05/06	SW846 5030B	SW846 8260B
p-Isopropyltoluene	< 17	17	56		25	ug/L		12/05/06	SW846 5030B	SW846 8260B
s-Butylbenzene	< 22	22	74		25	ug/L		12/05/06	SW846 5030B	SW846 8260B
Styrene	< 22	22	72		25	ug/L		12/05/06	SW846 5030B	SW846 8260B
t-Butylbenzene	< 24	24	81		25	ug/L		12/05/06	SW846 5030B	SW846 8260B
Tetrachloroethene	< 11	11	38		25	ug/L		12/05/06	SW846 5030B	SW846 8260B
Toluene	< 17	17	56		25	ug/L		12/05/06	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	< 22	22	74		25	ug/L		12/05/06	SW846 5030B	SW846 8260B
trans-1,3-Dichloropropene	< 4.8	4.8	16		25	ug/L		12/05/06	SW846 5030B	SW846 8260B
Trichloroethene	< 12	12	40		25	ug/L		12/05/06	SW846 5030B	SW846 8260B
Vinyl Chloride	< 4.5	4.5	15		25	ug/L		12/05/06	SW846 5030B	SW846 8260B
Xylene, m + p	< 45	45	150		25	ug/L		12/05/06	SW846 5030B	SW846 8260B
Xylene, o	< 21	21	69		25	ug/L		12/05/06	SW846 5030B	SW846 8260B
Surrogate		LCL	UCL							
4-Bromofluorobenzene	77	64	132		25	%		12/05/06	SW846 5030B	SW846 8260B
Toluene-d8	83	73	127		25	%		12/05/06	SW846 5030B	SW846 8260B
Dibromofluoromethane	79	68	122		25	%		12/05/06	SW846 5030B	SW846 8260B

PAH/ PNA

Prep Date: 12/01/06

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene	170	8.2	27		800	ug/L	D&	12/04/06	SW846 3510C	8270C-SIM
2-Methylnaphthalene	98	9.1	30		800	ug/L	D&	12/04/06	SW846 3510C	8270C-SIM
Acenaphthene	230	6.6	22		800	ug/L	D	12/04/06	SW846 3510C	8270C-SIM
Acenaphthylene	3.1	0.16	0.55		20	ug/L		12/01/06	SW846 3510C	8270C-SIM
Anthracene	16	9.3	31		800	ug/L	QD	12/04/06	SW846 3510C	8270C-SIM
Benzo(a)anthracene	0.65	0.31	1.0		20	ug/L	Q	12/01/06	SW846 3510C	8270C-SIM
Benzo(a)pyrene	< 0.37	0.37	1.2		20	ug/L		12/01/06	SW846 3510C	8270C-SIM
Benzo(b)fluoranthene	< 0.32	0.32	1.1		20	ug/L		12/01/06	SW846 3510C	8270C-SIM
Benzo(ghi)perylene	< 0.39	0.39	1.3		20	ug/L		12/01/06	SW846 3510C	8270C-SIM
Benzo(k)fluoranthene	< 0.39	0.39	1.3		20	ug/L		12/01/06	SW846 3510C	8270C-SIM
Chrysene	0.45	0.38	1.3		20	ug/L	Q	12/01/06	SW846 3510C	8270C-SIM
Dibenz(a,h)anthracene	< 0.38	0.38	1.3		20	ug/L		12/01/06	SW846 3510C	8270C-SIM
Fluoranthene	16	13	42		800	ug/L	QD	12/04/06	SW846 3510C	8270C-SIM
Fluorene	120	7.3	24		800	ug/L	D	12/04/06	SW846 3510C	8270C-SIM
Indeno(1,2,3-cd)pyrene	< 0.38	0.38	1.3		20	ug/L		12/01/06	SW846 3510C	8270C-SIM
Naphthalene	18	10	33		800	ug/L	QD	12/04/06	SW846 3510C	8270C-SIM
Phenanthrene	140	9.2	31		800	ug/L	D	12/04/06	SW846 3510C	8270C-SIM
Pyrene	9.4	0.29	0.98		20	ug/L		12/01/06	SW846 3510C	8270C-SIM

**Pace Analytical
Services, Inc.**

Analytical Report Number: 878904

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : KU RESOURCES
Project Name : KOPPERS SITE
Project Number : KI.06303SDPC.P
Field ID : TW-2

Matrix Type : GROUNDWATER
Collection Date : 11/28/06
Report Date : 12/06/06
Lab Sample Number : 878904-002

PAH/ PNA

Prep Date: 12/01/06

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Surrogate		LCL	UCL							
Nitrobenzene-d5	0.0	10	150		20	%	D	12/01/06	SW846 3510C	8270C-SIM
2-Fluorobiphenyl	0.0	20	111		20	%	D	12/01/06	SW846 3510C	8270C-SIM
Terphenyl-d14	0.00	44	115		20	%	D	12/01/06	SW846 3510C	8270C-SIM

SEMIVOLATILES - SPECIAL LIST

Prep Date: 12/01/06

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Surrogate		LCL	UCL							
Pentachlorophenol	3.0	1.0	3.4		1	ug/L	Q	12/04/06	SW846 3510C	SW846 8270C
2,4,6-Tribromophenol	109	55	131		1	%		12/04/06	SW846 3510C	SW846 8270C

**Pace Analytical
Services, Inc.**

Analytical Report Number: 878904

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : KU RESOURCES
Project Name : KOPPERS SITE
Project Number : KI.06303SDPC.P
Field ID : DP-01

Matrix Type : GROUNDWATER
Collection Date : 11/28/06
Report Date : 12/06/06
Lab Sample Number : 878904-003

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Arsenic - Dissolved	0.58	0.13	0.42		1	ug/L		12/05/06	SW846 3020A	SW846 6020
Chromium - Dissolved	< 0.32	0.32	1.1		1	ug/L		12/05/06	SW846 3020A	SW846 6020
Copper - Dissolved	6.4	1.1	3.7		1	ug/L	A	12/02/06	SW846 3010A	SW846 6010B

VOLATILES

Prep Date: 12/05/06

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,1,1,2-Tetrachloroethane	< 9.2	9.2	31		10	ug/L		12/05/06	SW846 5030B	SW846 8260B
1,1,1-Trichloroethane	< 9.0	9.0	30		10	ug/L		12/05/06	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	< 2.0	2.0	6.7		10	ug/L		12/05/06	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	< 4.2	4.2	14		10	ug/L		12/05/06	SW846 5030B	SW846 8260B
1,1-Dichloroethane	< 7.5	7.5	25		10	ug/L		12/05/06	SW846 5030B	SW846 8260B
1,1-Dichloroethene	< 5.7	5.7	19		10	ug/L		12/05/06	SW846 5030B	SW846 8260B
1,1-Dichloropropene	< 7.5	7.5	25		10	ug/L		12/05/06	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	< 7.4	7.4	25		10	ug/L		12/05/06	SW846 5030B	SW846 8260B
1,2,3-Trichloropropane	< 9.9	9.9	33		10	ug/L		12/05/06	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	< 9.7	9.7	32		10	ug/L		12/05/06	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	< 9.7	9.7	32		10	ug/L		12/05/06	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	< 8.7	8.7	29		10	ug/L		12/05/06	SW846 5030B	SW846 8260B
1,2-Dibromoethane	< 5.6	5.6	19		10	ug/L		12/05/06	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	< 8.3	8.3	28		10	ug/L		12/05/06	SW846 5030B	SW846 8260B
1,2-Dichloroethane	< 3.6	3.6	12		10	ug/L		12/05/06	SW846 5030B	SW846 8260B
1,2-Dichloropropane	< 4.6	4.6	15		10	ug/L		12/05/06	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	< 8.3	8.3	28		10	ug/L		12/05/06	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	< 8.7	8.7	29		10	ug/L		12/05/06	SW846 5030B	SW846 8260B
1,3-Dichloropropane	< 6.1	6.1	20		10	ug/L		12/05/06	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	< 9.5	9.5	32		10	ug/L		12/05/06	SW846 5030B	SW846 8260B
2,2-Dichloropropane	< 6.2	6.2	21		10	ug/L		12/05/06	SW846 5030B	SW846 8260B
2-Chlorotoluene	< 8.5	8.5	28		10	ug/L		12/05/06	SW846 5030B	SW846 8260B
4-Chlorotoluene	< 7.4	7.4	25		10	ug/L		12/05/06	SW846 5030B	SW846 8260B
Benzene	< 4.1	4.1	14		10	ug/L		12/05/06	SW846 5030B	SW846 8260B
Bromobenzene	< 8.2	8.2	27		10	ug/L		12/05/06	SW846 5030B	SW846 8260B
Bromochloromethane	< 9.7	9.7	32		10	ug/L		12/05/06	SW846 5030B	SW846 8260B
Bromodichloromethane	< 5.6	5.6	19		10	ug/L		12/05/06	SW846 5030B	SW846 8260B
Bromoform	< 9.4	9.4	31		10	ug/L		12/05/06	SW846 5030B	SW846 8260B
Bromomethane	< 9.1	9.1	30		10	ug/L		12/05/06	SW846 5030B	SW846 8260B
Carbon Tetrachloride	< 4.9	4.9	16		10	ug/L		12/05/06	SW846 5030B	SW846 8260B
Chlorobenzene	< 4.1	4.1	14		10	ug/L		12/05/06	SW846 5030B	SW846 8260B
Chlorodibromomethane	< 8.1	8.1	27		10	ug/L		12/05/06	SW846 5030B	SW846 8260B
Chloroethane	< 9.7	9.7	32		10	ug/L		12/05/06	SW846 5030B	SW846 8260B
Chloroform	< 3.7	3.7	12		10	ug/L		12/05/06	SW846 5030B	SW846 8260B
Chloromethane	< 2.4	2.4	8.0		10	ug/L		12/05/06	SW846 5030B	SW846 8260B
cis-1,2-Dichloroethene	< 8.3	8.3	28		10	ug/L		12/05/06	SW846 5030B	SW846 8260B
cis-1,3-Dichloropropene	< 1.9	1.9	6.3		10	ug/L		12/05/06	SW846 5030B	SW846 8260B
Dibromomethane	< 6.0	6.0	20		10	ug/L		12/05/06	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	< 9.9	9.9	33		10	ug/L		12/05/06	SW846 5030B	SW846 8260B
Diisopropyl Ether	< 7.6	7.6	25		10	ug/L		12/05/06	SW846 5030B	SW846 8260B
Ethylbenzene	< 5.4	5.4	18		10	ug/L		12/05/06	SW846 5030B	SW846 8260B
Fluorotrichloromethane	< 7.9	7.9	26		10	ug/L		12/05/06	SW846 5030B	SW846 8260B

Pace Analytical Services, Inc.

Analytical Report Number: 878904

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436


Client : KU RESOURCES
Project Name : KOPPERS SITE
Project Number : KI.06303SDPC.P
Field ID : DP-01

Matrix Type : GROUNDWATER
Collection Date : 11/28/06
Report Date : 12/06/06
Lab Sample Number : 878904-003

VOLATILES

Prep Date: 12/05/06

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Hexachlorobutadiene	< 6.7	6.7	22		10	ug/L		12/05/06	SW846 5030B	SW846 8260B
Isopropylbenzene	< 5.9	5.9	20		10	ug/L		12/05/06	SW846 5030B	SW846 8260B
Methylene Chloride	< 4.3	4.3	14		10	ug/L		12/05/06	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 6.1	6.1	20		10	ug/L		12/05/06	SW846 5030B	SW846 8260B
Naphthalene	1200	7.4	25		10	ug/L		12/05/06	SW846 5030B	SW846 8260B
n-Butylbenzene	< 9.3	9.3	31		10	ug/L		12/05/06	SW846 5030B	SW846 8260B
n-Propylbenzene	< 8.1	8.1	27						846 5030B	SW846 8260B
p-Isopropyltoluene	< 6.7	6.7	22						846 5030B	SW846 8260B
s-Butylbenzene	< 8.9	8.9	30						846 5030B	SW846 8260B
Styrene	< 8.6	8.6	29						846 5030B	SW846 8260B
t-Butylbenzene	< 9.7	9.7	32						846 5030B	SW846 8260B
Tetrachloroethene	< 4.5	4.5	15						846 5030B	SW846 8260B
Toluene	< 6.7	6.7	22						846 5030B	SW846 8260B
trans-1,2-Dichloroethene	< 8.9	8.9	30						846 5030B	SW846 8260B
trans-1,3-Dichloropropene	< 1.9	1.9	6.3						846 5030B	SW846 8260B
Trichloroethene	< 4.8	4.8	16						846 5030B	SW846 8260B
Vinyl Chloride	< 1.8	1.8	6.0						846 5030B	SW846 8260B
Xylene, m + p	< 18	18	60						846 5030B	SW846 8260B
Xylene, o	< 8.3	8.3	28						846 5030B	SW846 8260B
Surrogate		LCL	UCL							
4-Bromofluorobenzene	77	64	132						846 5030B	SW846 8260B
Toluene-d8	83	73	127						846 5030B	SW846 8260B
Dibromofluoromethane	80	68	122						846 5030B	SW846 8260B


 1.2 ppm
 > 0.4 ppm GW
 pathway
 651-454-0002 -Metro / 800-252-1166 -Greater MN
 www.gopherstateonecall.org

PAH/ PNA

Prep Date: 12/01/06

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene	170	8.2	27		800	ug/L	D&	12/04/06	SW846 3510C	8270C-SIM
2-Methylnaphthalene	0.70	0.23	0.75		20	ug/L	QB&	12/01/06	SW846 3510C	8270C-SIM
Acenaphthene	250	6.6	22		800	ug/L	D	12/04/06	SW846 3510C	8270C-SIM
Acenaphthylene	3.4	0.16	0.55		20	ug/L		12/01/06	SW846 3510C	8270C-SIM
Anthracene	20	9.3	31		800	ug/L	QD	12/04/06	SW846 3510C	8270C-SIM
Benzo(a)anthracene	0.79	0.31	1.0		20	ug/L	Q	12/01/06	SW846 3510C	8270C-SIM
Benzo(a)pyrene	< 0.37	0.37	1.2		20	ug/L		12/01/06	SW846 3510C	8270C-SIM
Benzo(b)fluoranthene	< 0.32	0.32	1.1		20	ug/L		12/01/06	SW846 3510C	8270C-SIM
Benzo(ghi)perylene	< 0.39	0.39	1.3		20	ug/L		12/01/06	SW846 3510C	8270C-SIM
Benzo(k)fluoranthene	< 0.39	0.39	1.3		20	ug/L		12/01/06	SW846 3510C	8270C-SIM
Chrysene	0.53	0.38	1.3		20	ug/L	Q	12/01/06	SW846 3510C	8270C-SIM
Dibenz(a,h)anthracene	< 0.38	0.38	1.3		20	ug/L		12/01/06	SW846 3510C	8270C-SIM
Fluoranthene	19	13	42		800	ug/L	QD	12/04/06	SW846 3510C	8270C-SIM
Fluorene	130	7.3	24		800	ug/L	D	12/04/06	SW846 3510C	8270C-SIM
Indeno(1,2,3-cd)pyrene	< 0.38	0.38	1.3		20	ug/L		12/01/06	SW846 3510C	8270C-SIM
Naphthalene	0.43	0.25	0.83		20	ug/L	QB	12/01/06	SW846 3510C	8270C-SIM
Phenanthrene	170	9.2	31		800	ug/L	D	12/04/06	SW846 3510C	8270C-SIM
Pyrene	< 12	12	39		800	ug/L	D	12/04/06	SW846 3510C	8270C-SIM

**Pace Analytical
Services, Inc.**

Analytical Report Number: 878904

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : KU RESOURCES
Project Name : KOPPERS SITE
Project Number : KI.06303SDPC.P
Field ID : DP-01

Matrix Type : GROUNDWATER
Collection Date : 11/28/06
Report Date : 12/06/06
Lab Sample Number : 878904-003

PAH/ PNA											Prep Date: 12/01/06
Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method	
Surrogate		LCL	UCL								
Nitrobenzene-d5	0.0	10	150		20	%	D	12/01/06	SW846 3510C	8270C-SIM	
2-Fluorobiphenyl	0.0	20	111		20	%	D	12/01/06	SW846 3510C	8270C-SIM	
Terphenyl-d14	0.00	44	115		20	%	D	12/01/06	SW846 3510C	8270C-SIM	

SEMIVOLATILES - SPECIAL LIST											Prep Date: 12/01/06
Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method	
Surrogate		LCL	UCL								
Pentachlorophenol	1.6	0.98	3.3		1	ug/L	Q	12/04/06	SW846 3510C	SW846 8270C	
2,4,6-Tribromophenol	105	55	131		1	%		12/04/06	SW846 3510C	SW846 8270C	

**Pace Analytical
Services, Inc.**

Analytical Report Number: 878904

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : KU RESOURCES
Project Name : KOPPERS SITE
Project Number : KI.06303SDPC.P
Field ID : TRIP BLK

Matrix Type : GROUNDWATER
Collection Date : 11/28/06
Report Date : 12/06/06
Lab Sample Number : 878904-004

VOLATILES

Prep Date: 12/04/06

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,1,1,2-Tetrachloroethane	< 0.92	0.92	3.1		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
1,1,1-Trichloroethane	< 0.90	0.90	3.0		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.20	0.20	0.67		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	< 0.42	0.42	1.4		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
1,1-Dichloroethane	< 0.75	0.75	2.5		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
1,1-Dichloroethene	< 0.57	0.57	1.9		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
1,1-Dichloropropene	< 0.75	0.75	2.5		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
1,2,3-Trichlorobenzene	< 0.74	0.74	2.5		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
1,2,3-Trichloropropane	< 0.99	0.99	3.3		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
1,2,4-Trichlorobenzene	< 0.97	0.97	3.2		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
1,2,4-Trimethylbenzene	< 0.97	0.97	3.2		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.87	0.87	2.9		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
1,2-Dibromoethane	< 0.56	0.56	1.9		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	< 0.83	0.83	2.8		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
1,2-Dichloroethane	< 0.36	0.36	1.2		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
1,2-Dichloropropane	< 0.46	0.46	1.5		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
1,3,5-Trimethylbenzene	< 0.83	0.83	2.8		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	< 0.87	0.87	2.9		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
1,3-Dichloropropane	< 0.61	0.61	2.0		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	< 0.95	0.95	3.2		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
2,2-Dichloropropane	< 0.62	0.62	2.1		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
2-Chlorotoluene	< 0.85	0.85	2.8		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
4-Chlorotoluene	< 0.74	0.74	2.5		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
Benzene	< 0.41	0.41	1.4		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
Bromobenzene	< 0.82	0.82	2.7		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
Bromochloromethane	< 0.97	0.97	3.2		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
Bromodichloromethane	< 0.56	0.56	1.9		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
Bromoform	< 0.94	0.94	3.1		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
Bromomethane	< 0.91	0.91	3.0		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
Carbon Tetrachloride	< 0.49	0.49	1.6		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
Chlorobenzene	< 0.41	0.41	1.4		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
Chlorodibromomethane	< 0.81	0.81	2.7		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
Chloroethane	< 0.97	0.97	3.2		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
Chloroform	< 0.37	0.37	1.2		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
Chloromethane	< 0.24	0.24	0.80		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
cis-1,2-Dichloroethene	< 0.83	0.83	2.8		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
cis-1,3-Dichloropropene	< 0.19	0.19	0.63		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
Dibromomethane	< 0.60	0.60	2.0		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	< 0.99	0.99	3.3		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
Diisopropyl Ether	< 0.76	0.76	2.5		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
Ethylbenzene	< 0.54	0.54	1.8		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
Fluorotrichloromethane	< 0.79	0.79	2.6		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
Hexachlorobutadiene	< 0.67	0.67	2.2		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
Isopropylbenzene	< 0.59	0.59	2.0		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
Methylene Chloride	0.70	0.43	1.4		1	ug/L	Q	12/04/06	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 0.61	0.61	2.0		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
Naphthalene	< 0.74	0.74	2.5		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
n-Butylbenzene	< 0.93	0.93	3.1		1	ug/L		12/04/06	SW846 5030B	SW846 8260B

**Pace Analytical
Services, Inc.**

Analytical Report Number: 878904

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : KU RESOURCES
Project Name : KOPPERS SITE
Project Number : KI.06303SDPC.P
Field ID : TRIP BLK

Matrix Type : GROUNDWATER
Collection Date : 11/28/06
Report Date : 12/06/06
Lab Sample Number : 878904-004

Prep Date: 12/04/06

VOLATILES

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
n-Propylbenzene	< 0.81	0.81	2.7		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
p-Isopropyltoluene	< 0.67	0.67	2.2		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
s-Butylbenzene	< 0.89	0.89	3.0		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
Styrene	< 0.86	0.86	2.9		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
t-Butylbenzene	< 0.97	0.97	3.2		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
Tetrachloroethene	< 0.45	0.45	1.5		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
Toluene	< 0.67	0.67	2.2		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	< 0.89	0.89	3.0		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
trans-1,3-Dichloropropene	< 0.19	0.19	0.63		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
Trichloroethene	< 0.48	0.48	1.6		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
Vinyl Chloride	< 0.18	0.18	0.60		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
Xylene, m + p	< 1.8	1.8	6.0		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
Xylene, o	< 0.83	0.83	2.8		1	ug/L		12/04/06	SW846 5030B	SW846 8260B
Surrogate		LCL	UCL							
4-Bromofluorobenzene	76	64	132		1	%		12/04/06	SW846 5030B	SW846 8260B
Toluene-d8	82	73	127		1	%		12/04/06	SW846 5030B	SW846 8260B
Dibromofluoromethane	83	68	122		1	%		12/04/06	SW846 5030B	SW846 8260B

**Pace Analytical
Services, Inc.**

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436
Fax: 920-469-8827

Lab Number	TestGroupID	Field ID	Comment
878904-	M-CU-D	All Samples	A - Analyte is detected in the method blank at a concentration of 3.1 ug/L.
878904-	Metals SW846 602	All Samples	Internal standard limits of 30-140% used. All QC within limits.
878904-001	PAH+-W	TW-1	B - Phenanthrene present in Extraction blank at 0.205ug/l.
878904-001	PAH+-W	TW-1	B - Naphthalene present in Extraction blank at 0.031ug/l.
878904-001	PAH+-W	TW-1	B - Flourene present in Extraction blank at 0.041ug/l.
878904-001	PAH+-W	TW-1	B - 2-Methylnaphthalene present in Extraction blank at 0.582ug/l.
878904-001	PAH+-W	TW-1	B - 1-Methylnaphthalene present in Extraction blank at 0.350ug/l.
878904-003	PAH+-W	DP-01	B - Naphthalene present in Extraction blank at 0.031ug/l.
878904-003	PAH+-W	DP-01	B - 2-Methylnaphthalene present in Extraction blank at 0.582ug/l.

Qualifier Codes

Flag Applies To Explanation

Flag	Applies To	Explanation
A	Inorganic	Analyte is detected in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
B	Inorganic	The analyte has been detected between the method detection limit and the reporting limit.
B	Organic	Analyte is present in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
C	All	Elevated detection limit.
D	All	Analyte value from diluted analysis or surrogate result not applicable due to sample dilution.
E	Inorganic	Estimated concentration due to matrix interferences. During the metals analysis the serial dilution failed to meet the established control limits of 0-10%. The sample concentration is greater than 50 times the IDL for analysis done on the ICP or 100 times the IDL for analysis done on the ICP-MS. The result was flagged with the E qualifier to indicate that a physical interference was observed.
E	Organic	Analyte concentration exceeds calibration range.
F	Inorganic	Due to potential interferences for this analysis by Inductively Coupled Plasma techniques (SW-846 Method 6010), this analyte has been confirmed by and reported from an alternate method.
F	Organic	Surrogate results outside control criteria.
G	All	The result is estimated because the concentration is less than the lowest calibration standard concentration utilized in the initial calibration. The method detection limit is less than the reporting limit specified for this project.
H	All	Preservation, extraction or analysis performed past holding time.
HF	Inorganic	This test is considered a field parameter, and the recommended holding time is 15 minutes from collection. The analysis was performed in the laboratory beyond the recommended holding time.
J	All	Concentration detected equal to or greater than the method detection limit but less than the reporting limit.
K	Inorganic	Sample received unpreserved. Sample was either preserved at the time of receipt or at the time of sample preparation.
K	Organic	Detection limit may be elevated due to the presence of an unrequested analyte.
L	All	Elevated detection limit due to low sample volume.
M	Organic	Sample pH was greater than 2
N	All	Spiked sample recovery not within control limits.
O	Organic	Sample received overweight.
P	Organic	The relative percent difference between the two columns for detected concentrations was greater than 40%.
Q	All	The analyte has been detected between the limit of detection (LOD) and limit of quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.
S	Organic	The relative percent difference between quantitation and confirmation columns exceeds internal quality control criteria. Because the result is unconfirmed, it has been reported as a non-detect with an elevated detection limit.
U	All	The analyte was not detected at or above the reporting limit.
V	All	Sample received with headspace.
W	All	A second aliquot of sample was analyzed from a container with headspace.
X	All	See Sample Narrative.
Z	Organics	This compound was separated in the check standard but it did not meet the resolution criteria as set forth in SW846.
&	All	Laboratory Control Spike recovery not within control limits.
*	All	Precision not within control limits.
+	Inorganic	The sample result is greater than four times the spike level; therefore, the percent recovery is not evaluated.
<	All	The analyte was not detected at or above the reporting limit.
1	Inorganic	Dissolved analyte or filtered analyte greater than total analyte; analyses passed QC based on precision criteria.
2	Inorganic	Dissolved analyte or filtered analyte greater than total analyte; analyses failed QC based on precision criteria.
3	Inorganic	BOD result is estimated due to the BOD blank exceeding the allowable oxygen depletion.
4	Inorganic	BOD duplicate precision not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
5	Inorganic	BOD result is estimated due to insufficient oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
6	Inorganic	BOD laboratory control sample not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
7	Inorganic	BOD result is estimated due to complete oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.

Test Group Name	878904-001	878904-002	878904-003	878904-004
ARSENIC - DISSOLVED	B	B	B	
CHROMIUM - DISSOLVED	B	B	B	
COPPER - DISSOLVED	B	B	B	
PAH/ PNA	B	B	B	
SEMIVOLATILES - SPECIAL LIST	B	B	B	
VOLATILES	G	G	G	G

Code	Facility	Address	WI Certification
B	Green Bay Lab (Bellevue St)	1241 Bellevue Street, Suite 9 Green Bay, WI 54302	405132750 / DATCP: 105-444
G	Green Bay Lab (Industrial Dr)	1795 Industrial Drive Green Bay, WI 54302	405132750



Sample Condition Upon Receipt

Client Name: TPT INC

Project # 878904

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used N/A Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature ROI Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: MS 11/30/06

Comments: 11/30/06

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:	<u>W</u>	
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>MS</u> Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15. <u>11/30/06</u>
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	16. <u>11/30/06</u>
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):	_____	

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review:

MS 11/30/06

Date: _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

