

**CHAIN OF CUSTODY RECORD**

PROJ. NO <b>2436</b>	PROJECT NAME <b>Oliver Plow Bldg 10/97</b>	Lab Order ID <b>0409347</b>	
SAMPLERS: (Print Name & Sign) <b>L.V. Graunvogel</b>		Total No. of Containers <b>2</b>	
FIELD ID <b>930-1</b>	DATE <b>9/30/01</b>	TIME <b>1330</b>	STATION LOCATION <b>Black Paint</b>
C O M P O S I T I O N		Sample Type <b>Sludge</b>	TAT <b>Wor</b>
C O M P O S I T I O N		Lab Number <b>99431</b>	
Total No. of Containers: <b>2</b> Total Metals: <b>✓</b> TCLP Metals: <b>✓</b> VOC: <b>✓</b>			
Note: TCLP SVOC added in mid October <b>WR</b>			
Relinquished By: (Signature) <i>[Signature]</i>		Date <b>9/30/01</b>	Time <b>1512</b>
Relinquished By: (Signature) <i>[Signature]</i>		Date <b>1</b>	Time
Relinquished By: (Signature)		Date	Time
EIS QUOTE NO:		Ship To:	

**NOTES:** 1) If you were issued a quote number, it must appear on this document.  
 2) Instructions & area for comments are on reverse side.



**REPORT OF ANALYSIS**

Mr Larry Grauvogel  
Grauvogel & Associates  
17660 Fall Creek Drive  
Granger, IN 46530  
Tel No: 277-4770  
Fax No: 277-5281  
PO No:

**Project Name: Oliver Plow Works**

Report Date: 11/1/04  
EIS Order No: 040900347  
EIS Sample No: 099431  
EIS Project No: 2730-1000-04

Client Sample ID: **Black Paint**  
Date Collected: 9/30/04  
Date Received: 9/30/04  
Collected By: L. Grauvogel

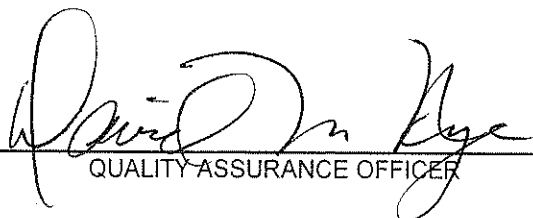
This report presents results of analysis for your sample(s) received under our Order No above. This Number is to be used in all inquiries concerning this report. The EIS Sample No above, as well as your Sample ID, refer to the first sample in a multi-sample submission

**DEFINITIONS:**

- MDL = Method Detection Limit normally achieved in the absence of interferences or other matrix difficulties.
- RDL = Reporting Detection Limit achieved in your sample. If numerically greater than the MDL, dilutions were required in order to perform the analysis. If numerically less than the MDL, alternate techniques were employed.
- nd = Not Detected at the RDL value. If present, result is less than this value.
- < = Not Detected at the numerical value shown. If present, result is less than this value.
- [ ] = Result is estimated due to matrix interferences or calibration curve exceedence.

CHAIN-OF-CUSTODY is enclosed if received with your sample submission.

DRINKING WATER CERTIFICATIONS: Chemistry = C-71-02 Bacteriology = M-76-5

  
QUALITY ASSURANCE OFFICER

  
LABORATORY DIRECTOR

The data in this report has been reviewed and complies with EIS Quality Control unless specifically addressed above.

## SAMPLE RESULTS

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CLIENT SAMPLE ID: Black Paint  
 CLIENT PROJECT: Oliver Plow Works  
 SAMPLE TYPE: Soil/Sludge/Solid  
 Date Collected: 9/30/04

Report Date: 11/1/04  
 EIS Sample No: 099431  
 EIS Order No: 040900347  
 Date Received: 9/30/04

Parameter	Results	Units	RDL	MDL	Test Date	Analyst ID	Method
<b>METALS</b>							
Arsenic, Total	<10	mg/kg(wet)	10	10	10/7/04	E09	6010
Barium, Total	1970	mg/kg(wet)	10	1	10/7/04	E09	6010
Cadmium, Total	3.3	mg/kg(wet)	1	1	10/7/04	E09	6010
Chromium, Total	174	mg/kg(wet)	2	2	10/7/04	E09	6010
Lead, Total	788	mg/kg(wet)	5	5	10/7/04	E09	6010
Mercury, Total	<0.2	mg/kg(wet)	0.2	0.2	10/20/04	E09	7471
Selenium, Total	<10	mg/kg(wet)	10	10	10/7/04	E09	6010
Silver, Total	<1	mg/kg(wet)	1	1	10/7/04	E09	6010

## SAMPLE RESULTS

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CLIENT SAMPLE ID: Black Paint  
 CLIENT PROJECT: Oliver Plow Works  
 SAMPLE TYPE: Soil/Sludge/Solid  
 Date Collected: 9/30/04

Report Date: 11/1/04  
 EIS Sample No: 099431  
 EIS Order No: 040900347  
 Date Received: 9/30/04

Parameter	Results	Units	RDL	MDL	Test Date	Analyst ID	Method
<b>TCLP SEMIVOLATILES</b>							
Cresol (meta) TCLP	nd	mg/L	0.1	0.1	10/29/04	E01	8270 C
Cresol (ortho) TCLP	nd	mg/L	0.1	0.1	10/29/04	E01	8270 C
Cresol (para) TCLP	nd	mg/L	0.1	0.1	10/29/04	E01	8270 C
Dinitrotoluene (2,4) TCLP	nd	mg/L	0.1	0.1	10/29/04	E01	8270 C
Hexachloro-1,3-butadiene, TCLP	nd	mg/L	0.1	0.1	10/29/04	E01	8270 C
Hexachlorobenzene, TCLP	nd	mg/L	0.1	0.1	10/29/04	E01	8270 C
Hexachloroethane, TCLP	nd	mg/L	0.1	0.1	10/29/04	E01	8270 C
Nitrobenzene, TCLP	nd	mg/L	0.1	0.1	10/29/04	E01	8270 C
Pentachlorophenol, TCLP	nd	mg/L	1	1	10/29/04	E01	8270 C
Pyridine, TCLP	nd	mg/L	0.1	0.1	10/29/04	E01	8270 C
Total Cresols, TCLP	nd	mg/L	0.3	0.3	10/29/04	E01	8270 C
Trichlorophenol (2,4,5) TCLP	nd	mg/L	1	1	10/29/04	E01	8270 C
Trichlorophenol (2,4,6) TCLP	nd	mg/L	0.1	0.1	10/29/04	E01	8270 C

## SAMPLE RESULTS

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CLIENT SAMPLE ID: Black Paint  
 CLIENT PROJECT: Oliver Plow Works  
 SAMPLE TYPE: Soil/Sludge/Solid  
 Date Collected: 9/30/04

Report Date: 11/1/04  
 EIS Sample No: 099431  
 EIS Order No: 040900347  
 Date Received: 9/30/04

Parameter	Results	Units	RDL	MDL	Test Date	Analyst ID	Method
<b>VOLATILE ORGANICS</b>							
Acetone	nd	mg/kg(wet)	5	0.5	10/14/04	E04	8260 B
Benzene	nd	mg/kg(wet)	0.5	0.05	10/14/04	E04	8260 B
Bromobenzene	nd	mg/kg(wet)	0.5	0.05	10/14/04	E04	8260 B
Bromochloromethane	nd	mg/kg(wet)	0.5	0.05	10/14/04	E04	8260 B
Bromodichloromethane	nd	mg/kg(wet)	0.5	0.05	10/14/04	E04	8260 B
Bromoform	nd	mg/kg(wet)	1	0.1	10/14/04	E04	8260 B
Bromomethane	nd	mg/kg(wet)	2.5	0.25	10/14/04	E04	8260 B
Butylbenzene (normal)	630	mg/kg(wet)	0.5	0.05	10/14/04	E04	8260 B
Butylbenzene (sec)	nd	mg/kg(wet)	0.5	0.05	10/14/04	E04	8260 B
Butylbenzene (tert)	3000	mg/kg(wet)	0.5	0.05	10/14/04	E04	8260 B
Carbon Tetrachloride	nd	mg/kg(wet)	1	0.1	10/14/04	E04	8260 B
Chlorobenzene	nd	mg/kg(wet)	0.5	0.05	10/14/04	E04	8260 B
Chloroethane	nd	mg/kg(wet)	1	0.1	10/14/04	E04	8260 B
Chloroform	nd	mg/kg(wet)	0.5	0.05	10/14/04	E04	8260 B
Chloromethane	nd	mg/kg(wet)	1	0.1	10/14/04	E04	8260 B
Chlorotoluene (2)	nd	mg/kg(wet)	0.5	0.05	10/14/04	E04	8260 B
Chlorotoluene (4)	nd	mg/kg(wet)	0.5	0.05	10/14/04	E04	8260 B
Dibromo-3-chloropropane (1,2)	nd	mg/kg(wet)	2.5	0.25	10/14/04	E04	8260 B
Dibromochloromethane	nd	mg/kg(wet)	0.5	0.05	10/14/04	E04	8260 B
Dibromoethane (1,2)	nd	mg/kg(wet)	0.5	0.05	10/14/04	E04	8260 B
Dibromomethane	nd	mg/kg(wet)	1	0.1	10/14/04	E04	8260 B
Dichlorobenzene (1,2)	nd	mg/kg(wet)	0.5	0.05	10/14/04	E04	8260 B
Dichlorobenzene (1,3)	nd	mg/kg(wet)	0.5	0.05	10/14/04	E04	8260 B
Dichlorobenzene (1,4)	nd	mg/kg(wet)	0.5	0.05	10/14/04	E04	8260 B
Dichlorodifluoromethane	nd	mg/kg(wet)	0.5	0.05	10/14/04	E04	8260 B
Dichloroethane (1,1)	nd	mg/kg(wet)	0.5	0.05	10/14/04	E04	8260 B
Dichloroethane (1,2)	nd	mg/kg(wet)	0.5	0.05	10/14/04	E04	8260 B
Dichloroethane (1,1)	nd	mg/kg(wet)	1	0.1	10/14/04	E04	8260 B
Dichloroethane (c-1,2)	nd	mg/kg(wet)	0.5	0.05	10/14/04	E04	8260 B
Dichloroethane (t-1,2)	nd	mg/kg(wet)	0.5	0.05	10/14/04	E04	8260 B
Dichloropropane (1,2)	nd	mg/kg(wet)	2.5	0.25	10/14/04	E04	8260 B
Dichloropropane (1,3)	nd	mg/kg(wet)	2.5	0.25	10/14/04	E04	8260 B
Dichloropropane (2,2)	nd	mg/kg(wet)	2.5	0.25	10/14/04	E04	8260 B
Dichloropropene (1,1)	nd	mg/kg(wet)	2.5	0.25	10/14/04	E04	8260 B
Dichloropropene (c-1,3)	nd	mg/kg(wet)	2.5	0.25	10/14/04	E04	8260 B
Dichloropropene (t-1,3)	nd	mg/kg(wet)	2.5	0.25	10/14/04	E04	8260 B
Diethyl ether	nd	mg/kg(wet)	5	0.5	10/14/04	E04	8260 B
Ethylbenzene	nd	mg/kg(wet)	0.5	0.05	10/14/04	E04	8260 B

## SAMPLE RESULTS

**CLIENT SAMPLE ID:** Black Paint  
**CLIENT PROJECT:** Oliver Plow Works  
**SAMPLE TYPE:** Soil/Sludge/Solid  
**Date Collected:** 9/30/04

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**Report Date:** 11/1/04  
**EIS Sample No:** 099431  
**EIS Order No:** 040900347  
**Date Received:** 9/30/04

Parameter	Results	Units	RDL	MDL	Test Date	Analyst ID	Method
Hexachlorobutadiene	nd	mg/kg(wet)	1	0.1	10/14/04	E04	8260 B
Hexanone (2-)	nd	mg/kg(wet)	5	0.5	10/14/04	E04	8260 B
Isopropylbenzene	nd	mg/kg(wet)	0.5	0.05	10/14/04	E04	8260 B
Isopropyltoluene (para)	nd	mg/kg(wet)	0.5	0.05	10/14/04	E04	8260 B
Methyl Ethyl Ketone (MEK)	nd	mg/kg(wet)	5	0.5	10/14/04	E04	8260 B
Methyl Isobutyl Ketone (MIBK)	nd	mg/kg(wet)	5	0.5	10/14/04	E04	8260 B
Methylbutylether (tert) (MTBE)	nd	mg/kg(wet)	1	0.1	10/14/04	E04	8260 B
Methylene chloride	nd	mg/kg(wet)	1	0.1	10/14/04	E04	8260 B
Naphthalene	750	mg/kg(wet)	0.5	0.05	10/14/04	E04	8260 B
Propylbenzene (normal)	1670	mg/kg(wet)	0.5	0.05	10/14/04	E04	8260 B
Styrene	nd	mg/kg(wet)	0.5	0.05	10/14/04	E04	8260 B
Tetrachloroethane (1,1,1,2)	nd	mg/kg(wet)	1	0.1	10/14/04	E04	8260 B
Tetrachloroethane (1,1,2,2)	nd	mg/kg(wet)	1	0.1	10/14/04	E04	8260 B
Tetrachloroethene	nd	mg/kg(wet)	0.5	0.05	10/14/04	E04	8260 B
Toluene	nd	mg/kg(wet)	0.5	0.05	10/14/04	E04	8260 B
Trichlorobenzene (1,2,3)	nd	mg/kg(wet)	0.5	0.05	10/14/04	E04	8260 B
Trichlorobenzene (1,2,4)	nd	mg/kg(wet)	0.5	0.05	10/14/04	E04	8260 B
Trichloroethane (1,1,1)	nd	mg/kg(wet)	0.5	0.05	10/14/04	E04	8260 B
Trichloroethane (1,1,2)	nd	mg/kg(wet)	0.5	0.05	10/14/04	E04	8260 B
Trichloroethene	nd	mg/kg(wet)	0.5	0.05	10/14/04	E04	8260 B
Trichlorofluoromethane	nd	mg/kg(wet)	0.5	0.05	10/14/04	E04	8260 B
Trichloropropane (1,2,3)	nd	mg/kg(wet)	2.5	0.25	10/14/04	E04	8260 B
Trimethylbenzene (1,2,4)	15700	mg/kg(wet)	0.5	0.05	10/14/04	E04	8260 B
Trimethylbenzene (1,3,5)	12560	mg/kg(wet)	0.5	0.05	10/14/04	E04	8260 B
Vinyl acetate	nd	mg/kg(wet)	5	0.5	10/14/04	E04	8260 B
Vinyl Chloride	nd	mg/kg(wet)	1	0.1	10/14/04	E04	8260 B
Xylene (ortho)	1260	mg/kg(wet)	0.5	0.05	10/14/04	E04	8260 B
Xylenes (meta + para)	1880	mg/kg(wet)	1	0.1	10/14/04	E04	8260 B

## SAMPLE PREPARATION INFORMATION

Client Name: Grauvogel & Associates  
 Client Project: Oliver Plow Works

Report Date: 11/1/04  
 EIS Order No: 040900347

EIS Lab Number	Client Description	Sample Date	Procedure	Result	Date Completed	Analyst	Method
099431	Black Paint	9/30/04	Digest Mercury	Complete	10/19/04	E09	7471
		9/30/04	Digest Mercury(TCLP Extract)	Complete	10/19/04	E09	7470
		9/30/04	Digest ICP Metals	Complete	10/7/04	E09	3050 B
		9/30/04	Digest ICP Metals(TCLP Extract)	Complete	10/5/04	E09	3005 A
		9/30/04	Extract SVOC(TCLP Extract)	Complete	10/19/04	E16	3510 C
		9/30/04	Extract VOC	Complete	10/6/04	E16	8260 B
		9/30/04	TCLP Extraction	Complete	10/4/04	E16	1311

**QUALITY ASSURANCE / QUALITY CONTROL DATA**  
**Method Specific Surrogate Compound Recoveries**

EIS Order ID: 040900347

Normal Test	Surrogate	QUALITY CONTROL LIMITS			
		Methods		QC Limits	
		Water	Soil	Water	Soil
Herbicides	2,4-Dichlorophenylacetic acid(DCAA)	615 / 8151A / 8270C	8270C	15 - 135	
Pesticides / PCB	2,4,5,6-Tetrachloro-m-xylene(TCMX)	608 / 8081A / 8082 / 508	8082	22 - 145	40 - 150
Pesticides / PCB	Decachlorobiphenyl(DCB)	608 / 8081A / 508	8082	22 - 145	40 - 150
SOC (svoc)	Perylene, d12	525.2		30 - 140	
SVOC (acid)	2-Fluorophenol	625 / 8270C	8270C	21 - 100	25 - 121
SVOC (acid)	Phenol, d5	625 / 8270C	8270C	10 - 94	24 - 113
SVOC (base/neutral)	Nitrobenzene, d5	625 / 8270C	8270C	35 - 114	23 - 120
SVOC (base/neutral)	2-Fluorobiphenyl	625 / 8270C	8270C	43 - 116	30 - 115
SVOC (acid)	2,4,6-Tribromophenol	625 / 8270C	8270C	10 - 123	19 - 122
SVOC (base/neutral)	Terphenyl, d14	625 / 8270C	8270C	33 - 141	18 - 137
TPH	Styrene	8015M	8015M	30 - 90	34 - 90
VOC / BETX / TPH	1,2-Dichloroethane, d4	624 / 8260B / 524.2	8260B	70 - 130	70 - 130
VOC / BETX / TPH	Toluene, d8	624 / 8260B / 524.2	8260B	70 - 130	70 - 130
VOC / BETX / TPH	Bromofluorobenzene(BFB)	624 / 8260B / 524.2	8260B	70 - 130	70 - 130

EIS Lab No	Client Sample ID	Method	Matrix	Surrogate	%Recovery
099431	Black Paint	8260 B	Soil/Sludge/Solid	1,2-Dichloroethane-d4 (SS)	96
		8260 B	Soil/Sludge/Solid	4-Bromofluorobenzene (SS)	108
		8260 B	Soil/Sludge/Solid	Toluene-d8 (SS)	108
099431	Black Paint	8270 C	Soil/Sludge/Solid	2,4,6-Tribromophenol (SS)	124
		8270 C	Soil/Sludge/Solid	2-Fluorobiphenyl (SS)	61
		8270 C	Soil/Sludge/Solid	2-Fluorophenol (SS)	57
		8270 C	Soil/Sludge/Solid	Nitrobenzene-d5 (SS)	79
		8270 C	Soil/Sludge/Solid	Phenol-d5 (SS)	47
		8270 C	Soil/Sludge/Solid	Terphenyl-d14 (SS)	64

**Legend:**    -1 = Surrogates diluted out    -2 = Surrogates not used    -999 = Interference in response area



Form Completion Instructions

1. Each slanted line represents specific container types from which specific tests are conducted. Use additional record sheets if # of samples or # of tests exceed allotted spaces.
2. List tests (per container type) on the slanted lines & give # of containers in boxes below tests.
3. Sum all containers and place in column labeled Total No. Containers.
4. For the column labeled Sample Type, give brief description such as soil, MW, oil, etc.
5. For column labeled TAT, use one of the following:

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<u>Request</u>	<u>Meaning</u>
Normal	2 – 4 weeks for written report based entirely on test complexity and number of samples
1 week	In general, prior authorization is required from the lab to request a 5 day turnaround time. Surcharges may or may not be applicable, depending entirely on test complexity.
3 days	<u>Must</u> have been authorized by the Lab and increased costs <u>must</u> have been authorized by the client.
1 day	<u>Must</u> have been authorized by the Lab and increased costs <u>must</u> have been authorized by the client.

Submission Comments