

IDOT PTB 199-014 WO#06A
I-80 at Wheeler Avenue, Channahon, Joliet, Minooka, New Lenox, IL
Sealed LPC-663 Document Package

APPENDIX D

LPC-663 CCDD DOCUMENTS



Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: IDOT 199-014 WO 06A I80 at Wheeler Avenue - PSI Office Phone Number, if available: 847-705-4122

Physical Site Location (address, including number and street):

ISGS Site 2233V3-1: I-80 ROW, adjacent to Wheeler Avenue, see attached documentation

City: Joliet State: IL Zip Code: 60436

County: Will Township: Joliet

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.51185 Longitude: - 88.10516

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

Google Earth - Approximate center of multiple addresses

IEPA Site Number(s), if assigned: BOL: NA BOW: NA BOA: NA

Approximate Start Date (mm/dd/yyyy): TBD Approximate End Date (mm/dd/yyyy): TBD

Estimated Volume of debris (cu. Yd.): 836

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Dept of Transportation, District 1

Street Address: 201 W. Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov

Site Operator

Name: Illinois Dept of Transportation, District 1

Street Address: 201 W. Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

Refer to Figure 4-1.1 through 4-1.3 in the Final PSI Report and borings 2233V3-1-01 (Wheeler Ave 17+45, 25 Right), 2233V3-1-02 (Wheeler Ave 18+30, 25 Right), 2233V3-1-03 (W Park Avenue 10+50, 25 Right), 2233V3-1-04 (W Park Avenue 11 +00, 25 Left), 2233V3-1-12 (I-80 637+00, 00), 2233V3-1-13 (I-80 639+00, 00).

b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201 (g), 1100.205(a), 1100.610]:

Refer to Tables 4-2 and 4-3 in the Final PSI Report for results summary and First Environmental Laboratories, Inc. report numbers #22-3607 and #22-3645. Site specific table of results is attached to this form.

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Jeremy J. Reynolds, P.G. (name of licensed professional engineer or geologist)

certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

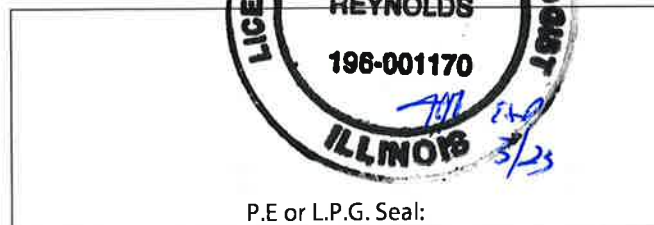
Company Name: Huff & Huff, Inc. / GZA GeoEnvironmental, Inc.
Street Address: 915 Harger Road, Suite 330
City: Oak Brook State: IL Zip Code: 60523
Phone: 630-684-9100

Jeremy J. Reynolds, P.G.
Printed Name:



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Jul 27 2022
Date:



REMOVAL LEGEND:

	PAVEMENT REMOVAL		DRIVEWAY PAVEMENT REMOVAL
	PAVED SHOULDER REMOVAL		LINEAR REMOVAL
	HOT-MIX ASPHALT SURFACE REMOVAL		TREE TRUNK PROTECTION, TREE ROOT PRUNING
	SIDEWALK REMOVAL		TREE REMOVAL, ACRES

NOTES

1. SEE SHEET 17 FOR REMOVAL INFORMATION ALONG WHEELER AVE.
2. ALL STATIONING REFERS TO PR C I-80 UNLESS OTHERWISE NOTED.

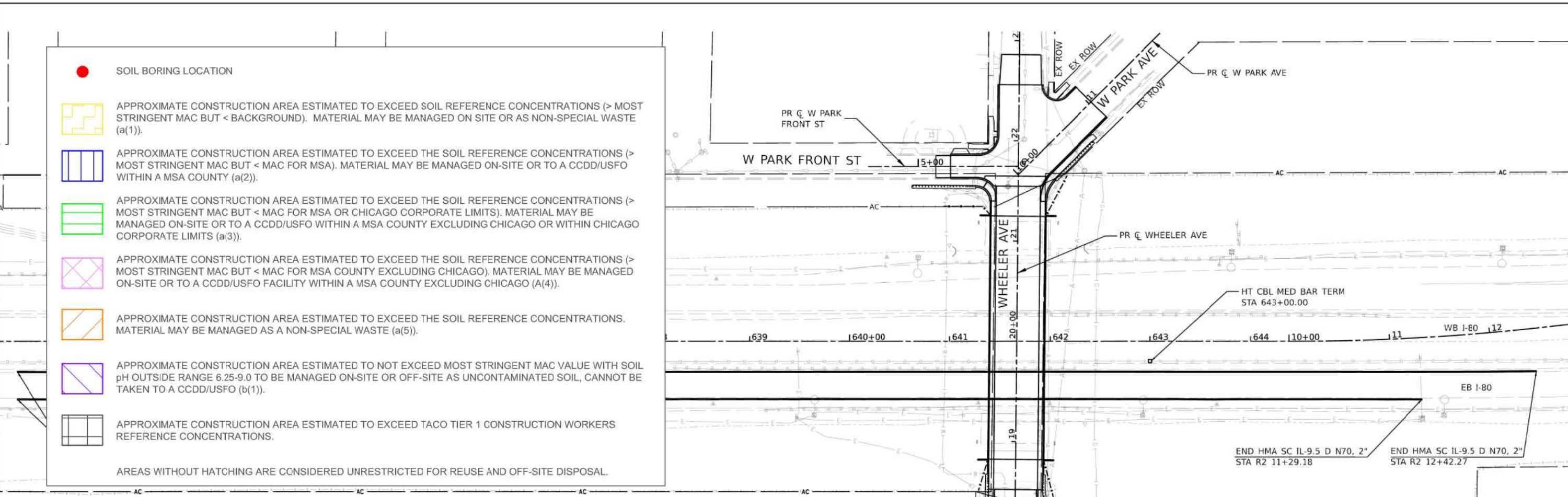
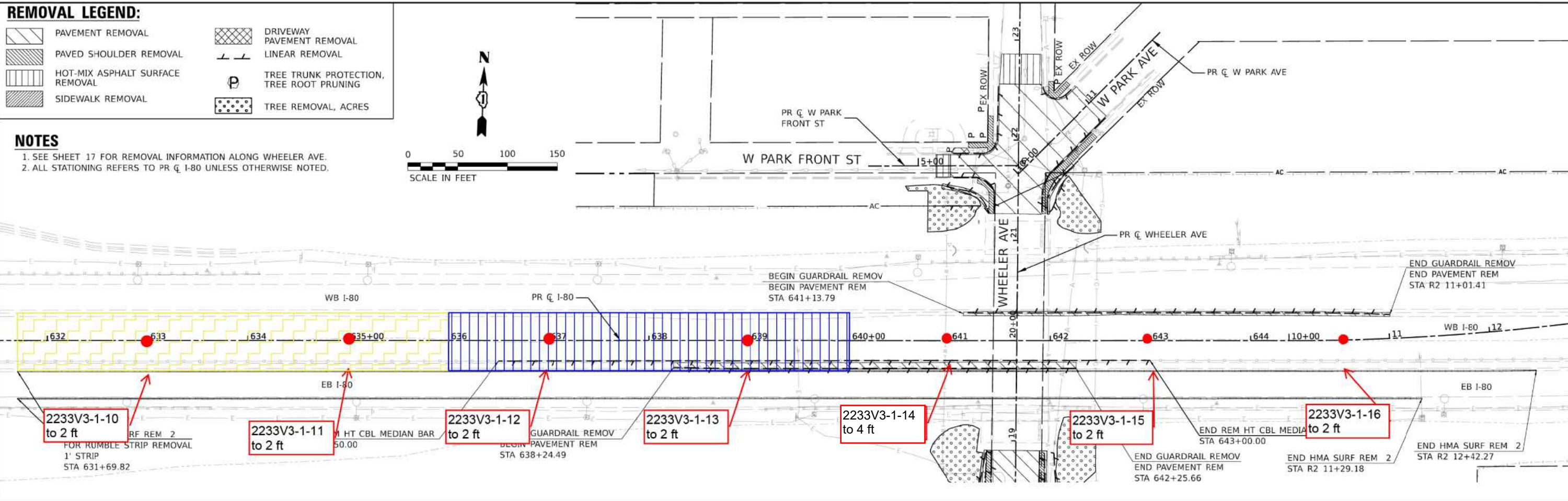


FIGURE 4-1.2 Extent of Potentially Impacted Soil
Huff & Huff, Inc. 199-014 WO #06A

WHEELER AVENUE OVER F.A.I. ROUTE 80 REMOVAL PLAN AND ROADWAY PLAN - I-80		F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: 1"=50'		340		WILL	55	18
SHEET 2 OF 2 SHEETS		STA. 631+50 TO STA. 12+90		CONTRACT NO. 62R30		
ILLINOIS FED. AID PROJECT						




USER NAME = karim.mostafa	DESIGNED -	REVISED -
PLOT SCALE = 100.000' / in.	DRAWN -	REVISED -
PLOT DATE = 1/27/2022	CHECKED -	REVISED -
	DATE -	REVISED -

MODEL: Default
 FILE NAME: p:\projects\62r30\62r30.dwg
 PLOT DATE: 1/27/2022
 PLOT SCALE: 100.000' / in.
 USER: karim.mostafa
 PROJECT: 62R30
 SHEET: 18 OF 55
 CONTRACT: 62R30

LPC-663 Results
 Soils for Reuse or Disposal at CCDD Facilities in MSA Counties Including Chicago
 IDOT, District One
 I-80 at Wheeler Avenue, Will County, Illinois
 BDE Sequence No.: 15923A
 PTB: 199-014/HH-2, Work Order No.: 6A

Boring ID Sample Depth, ft Sample Date Excavation Area(s) [ISGS Site No.(s)]	Soil Reference Concentrations ^{a/}	Soil Remediation Objective for Construction Workers ^{b/}		Soil Remediation Objective for Residential Exposure ^{c/}		2233V3-1-01	2233V3-1-02	2233V3-1-02	2233V3-1-03	2233V3-1-04	2233V3-1-12	2233V3-1-13
		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	(0-4)	(0-5)	(5-9)	(0-4)	(0-4)	(0-2)	(0-2)
						5/20/2022	5/20/2022	5/20/2022	5/20/2022	5/20/2022	5/23/2022	5/23/2022
Parameter												
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.82	7.81	8.81	8.57	8.43	8.84	8.89
PID Readings (ppm)						0.0	0.0	0.0	0.0	0.0	0.0	0.0
VOCs, mg/kg												
SVOCs, mg/kg												
Total Metals, mg/kg												
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	10.2	10	9.8	10.4	8.5	7	8.4
Barium	1,500	14,000	870,000	5,500	690,000	56.1	86.5	46.4	62.6	84.5	58.7	51.5
Beryllium	22	410	44,000	160	1,300	<0.5	0.6	<0.5	<0.5	0.8	0.6	0.6
Cadmium	5.2	200	59,000	78	1,800	<0.5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Calcium	---	---	---	---	---	37400	2910	60500	58000	28000	68700	63300
Chromium	21	4100	690	230	270	13.1	19.8	14	14.4	19.8	18.5	18.1
Cobalt	20	12000	---	4,700	---	9.4	8.1	8.9	8.4	6.5	9.9	12
Copper	2,900	8,200	---	2,900	---	26.5	22.1	27.7	25.1	23.6	25.3	27.1
Iron	15,000 / 15,900	---	---	---	---	21500	25200	21600	23200	24300	21600	22000
Lead	107	700	---	400	---	12	20.8	11.9	16.2	15.3	13.6	17.1
Magnesium	325,000	730,000	---	325,000	---	21700	3530	29300	36000	14300	29500	28100
Manganese	630 / 636	4100	8,700	1,600	---	443	504	513	567	280	379	460
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	23	16.5	27.4	21.2	20.1	24.8	27.5
Potassium	---	---	---	---	---	1160	830	1580	1450	1490	1950	2170
Selenium	1.3	1000	---	390	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Sodium	---	---	---	---	---	641	1660	882	1100	3090	1050	1460
Thallium	2.6	160	---	6.3	---	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vanadium	550	1400	---	550	---	19	34.4	20.2	22.7	30.5	24.6	23.8
Zinc	5,100	61,000	---	23,000	---	63.8	56.1	64.4	67.4	62.9	64.8	76.1
TCLP Metals, mg/L		Class I Groundwater ^{d/}										
Arsenic		0.05				<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Barium		2				<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium		0.004				<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Cadmium		0.005				<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium		0.1				<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cobalt		1				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Copper		0.65				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Iron		5				0.2	0.4	0.5	<0.1	<0.1	<0.1	<0.1
Lead		0.0075				<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese		0.15				1	0.1	0.3	1	0.6	0.7	0.8
Mercury		0.002				<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel		0.1				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Selenium		0.05				<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Silver		0.05				<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc		5				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SPLP Metals, mg/L		Class I Groundwater ^{d/}										
Arsenic		0.05				0.047	0.023	0.031	0.03	0.03	0.013	0.027
Barium		2				<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium		0.004				<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Cadmium		0.005				<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium		0.1				0.06	0.08	0.075	0.057	0.07	0.04	0.068
Cobalt		1				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Copper		0.65				0.119	0.099	0.105	0.078	0.081	0.06	0.088
Iron		5				102	96.7	93.6	83.8	87.6	45.4	76.1
Lead		0.0075				0.036	0.03	0.032	0.038	0.032	0.022	0.031
Manganese		0.15				0.7	0.5	0.5	0.5	0.3	0.3	0.4
Mercury		0.002				<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel		0.1				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Selenium		0.05				<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Silver		0.05				<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc		5				0.3	0.2	0.3	0.3	0.2	0.2	0.2

--- Refers to not applicable or value not available
^{a/} Soil reference concentrations from MAC table. Background values for MSA counties are included as applicable.
 Organic Soil Reference Concentrations (XX.XX / XX.XX / XX.XX) Include the Most Stringent Values from the MAC Table / The Chicago Corporate Limit / and The MSA County Excluding Chicago Values from the MAC Table.
 Inorganic Soil Reference Concentrations (xx.xx / xx.xx) Include the Most Stringent values from the MAC Table / and the MSA County Value From the MAC Table as Applicable.
^{b/} Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B
^{c/} Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A
^{d/} Soil Remediation Objective for the Groundwater Component of the Groundwater Ingestion Route, Class I Groundwater.
 When comparing results to the Soil Remediation Objectives, IDOT compares to the most stringent of the ingestion or inhalation exposure route value.
Bold indicates concentration detected
 Shaded values indicate concentration exceeds reference concentration



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.08, IDOT 199-014 WO #6
Sample ID: 2233V3-1-01 (0-4)
Sample No: 22-3607-001

Date Collected: 05/20/22
Time Collected: 9:20
Date Received: 05/20/22
Date Reported: 06/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 05/23/22				
Total Solids	83.95		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 05/26/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.08, IDOT 199-014 WO #6
Sample ID: 2233V3-1-01 (0-4)
Sample No: 22-3607-001

Date Collected: 05/20/22
Time Collected: 9:20
Date Received: 05/20/22
Date Reported: 06/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 05/26/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/26/22				
Preparation Date: 05/25/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.08, IDOT 199-014 WO #6
Sample ID: 2233V3-1-01 (0-4)
Sample No: 22-3607-001

Date Collected: 05/20/22
Time Collected: 9:20
Date Received: 05/20/22
Date Reported: 06/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/26/22		Preparation Date: 05/25/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.08, IDOT 199-014 WO #6
Sample ID: 2233V3-1-01 (0-4)
Sample No: 22-3607-001

Date Collected: 05/20/22
Time Collected: 9:20
Date Received: 05/20/22
Date Reported: 06/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/26/22		Preparation Date: 05/25/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/25/22		Preparation Date: 05/25/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	10.2	1.0	mg/kg	
Barium	56.1	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	37,400	50	mg/kg	
Chromium	13.1	0.5	mg/kg	
Cobalt	9.4	0.5	mg/kg	
Copper	26.5	0.5	mg/kg	
Iron	21,500	5.0	mg/kg	
Lead	12.0	0.5	mg/kg	
Magnesium	21,700	50	mg/kg	
Manganese	443	0.5	mg/kg	
Nickel	23.0	0.5	mg/kg	
Potassium	1,160	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	641	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	19.0	1.0	mg/kg	
Zinc	63.8	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.08, IDOT 199-014 WO #6
Sample ID: 2233V3-1-01 (0-4)
Sample No: 22-3607-001

Date Collected: 05/20/22
Time Collected: 9:20
Date Received: 05/20/22
Date Reported: 06/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 05/26/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 05/27/22 10:30				
pH @ 25°C, 1:2	8.82		Units	
TCLP Extraction Method: 1311				
Analysis Date: 05/23/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 06/01/22				
Preparation Method 3010A				
Preparation Date: 06/01/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.2	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.0	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 06/01/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 05/23/22				
SPLP Metals Extraction	Complete			
Arsenic	0.047	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.08, IDOT 199-014 WO #6
Sample ID: 2233V3-1-01 (0-4)
Sample No: 22-3607-001

Date Collected: 05/20/22
Time Collected: 9:20
Date Received: 05/20/22
Date Reported: 06/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 06/01/22		Preparation Date: 06/01/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.060	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.119	0.005	mg/L	
Iron	102	0.1	mg/L	
Lead	0.036	0.005	mg/L	
Manganese	0.7	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.3	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 06/03/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	100.7	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	102	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	107.2	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	113	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	71	45	112
8270C	2-Fluorophenol (Surr)	%R:	49.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	114	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	95	35	105
8270C	Phenol-d5 (surr)	%R:	69	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.08, IDOT 199-014 WO #6
Sample ID: 2233V3-1-02 0-5)
Sample No: 22-3607-002

Date Collected: 05/20/22
Time Collected: 9:30
Date Received: 05/20/22
Date Reported: 06/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 05/23/22				
Total Solids	81.45		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 05/26/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.08, IDOT 199-014 WO #6
Sample ID: 2233V3-1-02 0-5)
Sample No: 22-3607-002

Date Collected: 05/20/22
Time Collected: 9:30
Date Received: 05/20/22
Date Reported: 06/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 05/26/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/26/22				
Preparation Date: 05/25/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.08, IDOT 199-014 WO #6
Sample ID: 2233V3-1-02 0-5)
Sample No: 22-3607-002

Date Collected: 05/20/22
Time Collected: 9:30
Date Received: 05/20/22
Date Reported: 06/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/26/22		Preparation Date: 05/25/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.08, IDOT 199-014 WO #6
Sample ID: 2233V3-1-02 0-5)
Sample No: 22-3607-002

Date Collected: 05/20/22
Time Collected: 9:30
Date Received: 05/20/22
Date Reported: 06/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/26/22		Preparation Date: 05/25/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/25/22		Preparation Date: 05/25/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	10.0	1.0	mg/kg	
Barium	86.5	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	0.5	0.5	mg/kg	
Calcium	2,910	50	mg/kg	
Chromium	19.8	0.5	mg/kg	
Cobalt	8.1	0.5	mg/kg	
Copper	22.1	0.5	mg/kg	
Iron	25,200	5.0	mg/kg	
Lead	20.8	0.5	mg/kg	
Magnesium	3,530	50	mg/kg	
Manganese	504	0.5	mg/kg	
Nickel	16.5	0.5	mg/kg	
Potassium	830	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	1,660	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	34.4	1.0	mg/kg	
Zinc	56.1	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.08, IDOT 199-014 WO #6
Sample ID: 2233V3-1-02 0-5)
Sample No: 22-3607-002

Date Collected: 05/20/22
Time Collected: 9:30
Date Received: 05/20/22
Date Reported: 06/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 05/26/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 05/27/22 10:30				
pH @ 25°C, 1:2	7.81		Units	
TCLP Extraction Method: 1311				
Analysis Date: 05/23/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 06/01/22				
Preparation Method 3010A				
Preparation Date: 06/01/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.4	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 06/01/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 05/23/22				
SPLP Metals Extraction	Complete			
Arsenic	0.023	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.08, IDOT 199-014 WO #6
Sample ID: 2233V3-1-02 0-5)
Sample No: 22-3607-002

Date Collected: 05/20/22
Time Collected: 9:30
Date Received: 05/20/22
Date Reported: 06/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 06/01/22		Preparation Date: 06/01/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.080	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.099	0.005	mg/L	
Iron	96.7	0.1	mg/L	
Lead	0.030	0.005	mg/L	
Manganese	0.5	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.2	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 06/03/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98.7	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	100.9	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	106.5	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	133	*	59 - 131
8270C	2-Fluorobiphenyl (Surr)	%R:	75		45 - 112
8270C	2-Fluorophenol (Surr)	%R:	66.5		41 - 84
8270C	d14-Terphenyl (Surr)	%R:	129	*	56 - 120
8270C	d5-Nitrobenzene (Surr)	%R:	102		35 - 105
8270C	Phenol-d5 (surr)	%R:	82.5		50 - 100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.08, IDOT 199-014 WO #6
Sample ID: 2233V3-1-02 (5-9)
Sample No: 22-3607-003

Date Collected: 05/20/22
Time Collected: 9:35
Date Received: 05/20/22
Date Reported: 06/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 05/23/22				
Total Solids	86.53		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 05/26/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.08, IDOT 199-014 WO #6
Sample ID: 2233V3-1-02 (5-9)
Sample No: 22-3607-003

Date Collected: 05/20/22
Time Collected: 9:35
Date Received: 05/20/22
Date Reported: 06/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 05/26/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/26/22				
Preparation Date: 05/25/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.08, IDOT 199-014 WO #6
Sample ID: 2233V3-1-02 (5-9)
Sample No: 22-3607-003

Date Collected: 05/20/22
Time Collected: 9:35
Date Received: 05/20/22
Date Reported: 06/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/26/22		Preparation Date: 05/25/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.08, IDOT 199-014 WO #6
Sample ID: 2233V3-1-02 (5-9)
Sample No: 22-3607-003

Date Collected: 05/20/22
Time Collected: 9:35
Date Received: 05/20/22
Date Reported: 06/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/26/22		Preparation Date: 05/25/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals	Method: 6010C	Preparation Method 3050B		
Analysis Date: 05/25/22		Preparation Date: 05/25/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	9.8	1.0	mg/kg	
Barium	46.4	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	60,500	50	mg/kg	
Chromium	14.0	0.5	mg/kg	
Cobalt	8.9	0.5	mg/kg	
Copper	27.7	0.5	mg/kg	
Iron	21,600	5.0	mg/kg	
Lead	11.9	0.5	mg/kg	
Magnesium	29,300	50	mg/kg	
Manganese	513	0.5	mg/kg	
Nickel	27.4	0.5	mg/kg	
Potassium	1,580	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	882	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	20.2	1.0	mg/kg	
Zinc	64.4	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.08, IDOT 199-014 WO #6
Sample ID: 2233V3-1-02 (5-9)
Sample No: 22-3607-003

Date Collected: 05/20/22
Time Collected: 9:35
Date Received: 05/20/22
Date Reported: 06/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 06/01/22		Preparation Date: 06/01/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.075	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.105	0.005	mg/L	
Iron	93.6	0.1	mg/L	
Lead	0.032	0.005	mg/L	
Manganese	0.5	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.3	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 06/03/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	100.7	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	102	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	109.7	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	114	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	68	45	112
8270C	2-Fluorophenol (Surr)	%R:	51.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	117	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	91	35	105
8270C	Phenol-d5 (surr)	%R:	69.5	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.08, IDOT 199-014 WO #6
Sample ID: 2233V3-1-03 (0-4)
Sample No: 22-3607-004

Date Collected: 05/20/22
Time Collected: 9:45
Date Received: 05/20/22
Date Reported: 06/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 05/23/22				
Total Solids	83.33		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 05/27/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.08, IDOT 199-014 WO #6
Sample ID: 2233V3-1-03 (0-4)
Sample No: 22-3607-004

Date Collected: 05/20/22
Time Collected: 9:45
Date Received: 05/20/22
Date Reported: 06/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 05/27/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/26/22				
Preparation Date: 05/25/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.08, IDOT 199-014 WO #6
Sample ID: 2233V3-1-03 (0-4)
Sample No: 22-3607-004

Date Collected: 05/20/22
Time Collected: 9:45
Date Received: 05/20/22
Date Reported: 06/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/26/22		Preparation Date: 05/25/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.08, IDOT 199-014 WO #6
Sample ID: 2233V3-1-03 (0-4)
Sample No: 22-3607-004

Date Collected: 05/20/22
Time Collected: 9:45
Date Received: 05/20/22
Date Reported: 06/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/26/22		Preparation Date: 05/25/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/25/22		Preparation Date: 05/25/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	10.4	1.0	mg/kg	
Barium	62.6	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	58,000	50	mg/kg	
Chromium	14.4	0.5	mg/kg	
Cobalt	8.4	0.5	mg/kg	
Copper	25.1	0.5	mg/kg	
Iron	23,200	5.0	mg/kg	
Lead	16.2	0.5	mg/kg	
Magnesium	36,000	50	mg/kg	
Manganese	567	0.5	mg/kg	
Nickel	21.2	0.5	mg/kg	
Potassium	1,450	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	1,100	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	22.7	1.0	mg/kg	
Zinc	67.4	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.08, IDOT 199-014 WO #6
Sample ID: 2233V3-1-03 (0-4)
Sample No: 22-3607-004

Date Collected: 05/20/22
Time Collected: 9:45
Date Received: 05/20/22
Date Reported: 06/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 05/26/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 05/27/22 10:30				
pH @ 25°C, 1:2	8.57		Units	
TCLP Extraction Method: 1311				
Analysis Date: 05/23/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 06/01/22				
Preparation Method 3010A				
Preparation Date: 06/01/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.0	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 06/01/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 05/23/22				
SPLP Metals Extraction	Complete			
Arsenic	0.030	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.08, IDOT 199-014 WO #6
Sample ID: 2233V3-1-03 (0-4)
Sample No: 22-3607-004

Date Collected: 05/20/22
Time Collected: 9:45
Date Received: 05/20/22
Date Reported: 06/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 06/01/22		Preparation Date: 06/01/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.057	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.078	0.005	mg/L	
Iron	83.8	0.1	mg/L	
Lead	0.038	0.005	mg/L	
Manganese	0.5	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.3	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 06/03/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	101.4	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	102.4	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	109.8	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	142	*	59 - 131
8270C	2-Fluorobiphenyl (Surr)	%R:	100		45 - 112
8270C	2-Fluorophenol (Surr)	%R:	66		41 - 84
8270C	d14-Terphenyl (Surr)	%R:	136	*	56 - 120
8270C	d5-Nitrobenzene (Surr)	%R:	118	*	35 - 105
8270C	Phenol-d5 (surr)	%R:	84		50 - 100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.08, IDOT 199-014 WO #6
Sample ID: 2233V3-1-04 (0-4)
Sample No: 22-3607-005

Date Collected: 05/20/22
Time Collected: 9:50
Date Received: 05/20/22
Date Reported: 06/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 05/23/22				
Total Solids	77.02		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 05/27/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.08, IDOT 199-014 WO #6
Sample ID: 2233V3-1-04 (0-4)
Sample No: 22-3607-005

Date Collected: 05/20/22
Time Collected: 9:50
Date Received: 05/20/22
Date Reported: 06/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 05/27/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/26/22				
Preparation Date: 05/25/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.08, IDOT 199-014 WO #6
Sample ID: 2233V3-1-04 (0-4)
Sample No: 22-3607-005

Date Collected: 05/20/22
Time Collected: 9:50
Date Received: 05/20/22
Date Reported: 06/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/26/22		Preparation Date: 05/25/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.08, IDOT 199-014 WO #6
Sample ID: 2233V3-1-04 (0-4)
Sample No: 22-3607-005

Date Collected: 05/20/22
Time Collected: 9:50
Date Received: 05/20/22
Date Reported: 06/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/26/22		Preparation Date: 05/25/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/25/22		Preparation Date: 05/25/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	8.5	1.0	mg/kg	
Barium	84.5	0.5	mg/kg	
Beryllium	0.8	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	28,000	50	mg/kg	
Chromium	19.8	0.5	mg/kg	
Cobalt	6.5	0.5	mg/kg	
Copper	23.6	0.5	mg/kg	
Iron	24,300	5.0	mg/kg	
Lead	15.3	0.5	mg/kg	
Magnesium	14,300	50	mg/kg	
Manganese	280	0.5	mg/kg	
Nickel	20.1	0.5	mg/kg	
Potassium	1,490	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	3,090	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	30.5	1.0	mg/kg	
Zinc	62.9	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.08, IDOT 199-014 WO #6
Sample ID: 2233V3-1-04 (0-4)
Sample No: 22-3607-005

Date Collected: 05/20/22
Time Collected: 9:50
Date Received: 05/20/22
Date Reported: 06/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 06/01/22		Preparation Date: 06/01/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.070	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.081	0.005	mg/L	
Iron	87.6	0.1	mg/L	
Lead	0.032	0.005	mg/L	
Manganese	0.3	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.2	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 06/03/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	100.8	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	102.3	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	110.8	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	115	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	59	45	112
8270C	2-Fluorophenol (Surr)	%R:	53.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	109	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	85	35	105
8270C	Phenol-d5 (surr)	%R:	70.5	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199.014-W06
Sample ID: 2233V3-1-12 (0-2)
Sample No: 22-3645-003

Date Collected: 05/23/22
Time Collected: 9:55
Date Received: 05/23/22
Date Reported: 06/08/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 05/25/22				
Total Solids	83.41		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 05/27/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199.014-W06
Sample ID: 2233V3-1-12 (0-2)
Sample No: 22-3645-003

Date Collected: 05/23/22
Time Collected: 9:55
Date Received: 05/23/22
Date Reported: 06/08/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 05/27/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/27/22				
Preparation Date: 05/26/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199.014-W06
Sample ID: 2233V3-1-12 (0-2)
Sample No: 22-3645-003

Date Collected: 05/23/22
Time Collected: 9:55
Date Received: 05/23/22
Date Reported: 06/08/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/27/22		Preparation Date: 05/26/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199.014-W06
Sample ID: 2233V3-1-12 (0-2)
Sample No: 22-3645-003

Date Collected: 05/23/22
Time Collected: 9:55
Date Received: 05/23/22
Date Reported: 06/08/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/27/22		Preparation Date: 05/26/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/26/22		Preparation Date: 05/25/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.0	1.0	mg/kg	
Barium	58.7	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	68,700	50	mg/kg	
Chromium	18.5	0.5	mg/kg	
Cobalt	9.9	0.5	mg/kg	
Copper	25.3	0.5	mg/kg	
Iron	21,600	5.0	mg/kg	
Lead	13.6	0.5	mg/kg	
Magnesium	29,500	50	mg/kg	
Manganese	379	0.5	mg/kg	
Nickel	24.8	0.5	mg/kg	
Potassium	1,950	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	1,050	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	24.6	1.0	mg/kg	
Zinc	64.8	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199.014-W06
Sample ID: 2233V3-1-12 (0-2)
Sample No: 22-3645-003

Date Collected: 05/23/22
Time Collected: 9:55
Date Received: 05/23/22
Date Reported: 06/08/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 06/08/22		Preparation Date: 06/06/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.040	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.060	0.005	mg/L	
Iron	45.4	0.1	mg/L	
Lead	0.022	0.005	mg/L	
Manganese	0.3	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.2	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 06/03/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	99.8	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	102.4	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	111.3	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	77.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	68	45	112
8270C	2-Fluorophenol (Surr)	%R:	61	41	84
8270C	d14-Terphenyl (Surr)	%R:	107	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	77	35	105
8270C	Phenol-d5 (surr)	%R:	73	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199.014-W06
Sample ID: 2233V3-1-13 (0-2)
Sample No: 22-3645-004

Date Collected: 05/23/22
Time Collected: 10:05
Date Received: 05/23/22
Date Reported: 06/08/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 05/25/22				
Total Solids	82.85		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 05/27/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199.014-W06
Sample ID: 2233V3-1-13 (0-2)
Sample No: 22-3645-004

Date Collected: 05/23/22
Time Collected: 10:05
Date Received: 05/23/22
Date Reported: 06/08/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 05/27/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/27/22				
Preparation Date: 05/26/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199.014-W06
Sample ID: 2233V3-1-13 (0-2)
Sample No: 22-3645-004

Date Collected: 05/23/22
Time Collected: 10:05
Date Received: 05/23/22
Date Reported: 06/08/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/27/22		Preparation Date: 05/26/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199.014-W06
Sample ID: 2233V3-1-13 (0-2)
Sample No: 22-3645-004

Date Collected: 05/23/22
Time Collected: 10:05
Date Received: 05/23/22
Date Reported: 06/08/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/27/22		Preparation Date: 05/26/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/26/22		Preparation Date: 05/25/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	8.4	1.0	mg/kg	
Barium	51.5	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	63,300	50	mg/kg	
Chromium	18.1	0.5	mg/kg	
Cobalt	12.0	0.5	mg/kg	
Copper	27.1	0.5	mg/kg	
Iron	22,000	5.0	mg/kg	
Lead	17.1	0.5	mg/kg	
Magnesium	28,100	50	mg/kg	
Manganese	460	0.5	mg/kg	
Nickel	27.5	0.5	mg/kg	
Potassium	2,170	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	1,460	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	23.8	1.0	mg/kg	
Zinc	76.1	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199.014-W06
Sample ID: 2233V3-1-13 (0-2)
Sample No: 22-3645-004

Date Collected: 05/23/22
Time Collected: 10:05
Date Received: 05/23/22
Date Reported: 06/08/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 06/08/22		Preparation Date: 06/06/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.068	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.088	0.005	mg/L	
Iron	76.1	0.1	mg/L	
Lead	0.031	0.005	mg/L	
Manganese	0.4	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.2	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 06/03/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	96.7	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	101.5	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	109.7	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	72.5	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	72	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	58	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	105	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	78	35 -	105
8270C	Phenol-d5 (surr)	%R:	71.5	50 -	100



Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: IDOT 199-014 WO 06A I80 at Wheeler Avenue - PSI Office Phone Number, if available: 847-705-4122

Physical Site Location (address, including number and street):

ISGS Site 2233V3-1: I-80 ROW, adjacent to Wheeler Avenue, see attached documentation

City: Joliet State: IL Zip Code: 60436

County: Will Township: Joliet

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.51185 Longitude: - 88.10516

(Decimal Degrees)

(-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

Google Earth - Approximate center of multiple addresses

EPA Site Number(s), if assigned: BOL: NA BOW: NA BOA: NA

Approximate Start Date (mm/dd/yyyy): TBD Approximate End Date (mm/dd/yyyy): TBD

Estimated Volume of debris (cu. Yd.): 732

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Dept of Transportation, District 1

Street Address: 201 W. Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov

Site Operator

Name: Illinois Dept of Transportation, District 1

Street Address: 201 W. Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Email, if available: Irma.Romiti-Johnson@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a):

Refer to Figure 4-1.3 in the Final PSI Report and boring 2233V3-1-07 (Wheeler Ave 21+25, 25 Left), 2233V3-1-14 (I-80 641+00, 00), 2233V3-1-15 (I-80 643+00, 00), and 2233V3-1-16 (I-80 10+50, 00).

b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201 (g), 1100.205(a), 1100.610]:

Refer to Tables 4-2 and 4-3 in the Final PSI Report for results summary and First Environmental Laboratories, Inc. report numbers #22-3607 and #22-3645. Site specific table of results is attached to this form.

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Jeremy J. Reynolds, P.G. (name of licensed professional engineer or geologist)

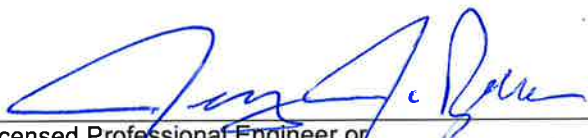
certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Huff & Huff, Inc. / GZA GeoEnvironmental, Inc.
Street Address: 915 Harger Road, Suite 330
City: Oak Brook State: IL Zip Code: 60523
Phone: 630-684-9100

Jeremy J. Reynolds, P.G.

Printed Name:




Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Jul 27, 2022
Date:



LPC-663 Results
Soils for Unrestricted Reuse or Disposal at CCDD Facilities
IDOT, District One
I-80 at Wheeler Avenue, Will County, Illinois
BDE Sequence No.: 15923A
PTB: 199-014/HH-2, Work Order No.: 6A

Boring ID Sample Depth, ft Sample Date Excavation Area(s) [ISGS Site No.(s)]	Soil Reference Concentrations ^{a/}	Soil Remediation Objective for Construction Workers ^{b/}		Soil Remediation Objective for Residential Exposure ^{c/}		2233V3-1-07	2233V3-1-07	2233V3-1-14	2233V3-1-15	2233V3-1-16
		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	(0-5)	(5-9)	(0-4)	(0-2)	(0-2)
						5/20/2022	5/20/2022	5/23/2022	5/23/2022	5/23/2022
Parameter										
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.27	8.75	8.02	8.57	7.93
PID Readings (ppm)						0.0	0.0	0.0	0.0	0.0
VOCS, mg/kg						NO EXCEEDANCES				
SVOCs, mg/kg						NO EXCEEDANCES				
Total Metals, mg/kg										
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	8.8	9.5	5	6.4	7.6
Barium	1,500	14,000	870,000	5,500	690,000	60.6	101	41.2	43.4	48.4
Beryllium	22	410	44,000	160	1,300	<0.5	0.6	0.6	<0.5	0.6
Cadmium	5.2	200	59,000	78	1,800	<0.5	<0.5	<0.5	<0.5	<0.5
Calcium	---	---	---	---	---	57300	40500	68300	77700	64500
Chromium	21	4100	690	230	270	16.1	17.6	16.5	15.7	17.2
Cobalt	20	12000	---	4,700	---	10.3	12	9.8	10.3	11.9
Copper	2,900	8,200	---	2,900	---	24.9	22	21.4	24.4	24.5
Iron	15,000 / 15,900	---	---	---	---	21800	23800	19200	19200	21000
Lead	107	700	---	400	---	15.3	15.5	13.4	13.3	15.7
Magnesium	325,000	730,000	---	325,000	---	30300	19700	34600	38700	31700
Manganese	630 / 636	4100	8,700	1,600	---	661	591	401	444	501
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	26.4	26.2	25.7	26.3	28.7
Potassium	---	---	---	---	---	1780	1820	2270	2200	2310
Selenium	1.3	1000	---	390	---	<1.0	<1.0	<1.0	<1.0	<1.0
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<0.2	<0.2
Sodium	---	---	---	---	---	154	297	1080	776	669
Thallium	2.6	160	---	6.3	---	<1.0	<1.0	<1.0	<1.0	<1.0
Vanadium	550	1400	---	550	---	21.5	25.1	21.2	21.1	22
Zinc	5,100	61,000	---	23,000	---	65.9	59.5	61	63.7	80.5
TCLP Metals, mg/L		Class I Groundwater ^{d/}								
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<0.005	<0.005	<0.005	<0.005	<0.005
Cobalt			1			<0.1	<0.1	<0.1	<0.1	<0.1
Copper			0.65			<0.1	<0.1	<0.1	<0.1	<0.1
Iron			5			<0.1	0.3	<0.1	<0.1	<0.1
Lead			0.0075			<0.005	<0.005	<0.005	<0.005	<0.005
Manganese			0.15			1	1.7	1.8	1.1	0.9
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	0.01	0.01
Silver			0.05			<0.005	<0.005	<0.005	<0.005	<0.005
Zinc			5			<0.1	<0.1	<0.1	<0.1	<0.1
SPLP Metals, mg/L		Class I Groundwater ^{d/}								
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<0.005	<0.005	<0.005	0.017	0.005
Cobalt			1			<0.1	<0.1	<0.1	<0.1	<0.1
Copper			0.65			<0.005	<0.005	<0.005	0.024	0.008
Iron			5			2.5	3.7	<0.1	14	4.4
Lead			0.0075			<0.005	<0.005	<0.005	0.006	<0.005
Manganese			0.15			<0.1	<0.1	<0.1	<0.1	<0.1
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005	<0.005
Zinc			5			<0.1	<0.1	<0.1	<0.1	<0.1

--- - Refers to not applicable or value not available
^{a/} Soil reference concentrations from MAC table. Background values for MSA counties are included as applicable.
Organic Soil Reference Concentrations (XX.XX / XX.XX / XX.XX) Include the Most Stringent Values from the MAC Table / The Chicago Corporate Limit / and The MSA County Excluding Chicago Values From the MAC Table.
Inorganic Soil Reference Concentrations (xx.xx / xx.xx) Include the Most Stringent values from the MAC Table / and the MSA County Value From the MAC Table as Applicable.
^{b/} Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B
^{c/} Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A
^{d/} Soil Remediation Objective for the Groundwater Component of the Groundwater Ingestion Route, Class I Groundwater.
When comparing results to the Soil Remediation Objectives, IDOT compares to the most stringent of the ingestion or inhalation exposure route value.
Bold indicates concentration detected
 Shaded values indicate concentration exceeds reference concentration



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 05/20/22

Project ID: PO# 81.0220714.08, IDOT 199-014 WO #6

Time Collected: 10:05

Sample ID: 2233V3-1-07 (0-4)

Date Received: 05/20/22

Sample No: 22-3607-008

Date Reported: 06/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 05/23/22				
Total Solids	82.74		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 05/27/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.08, IDOT 199-014 WO #6
Sample ID: 2233V3-1-07 (0-4)
Sample No: 22-3607-008

Date Collected: 05/20/22
Time Collected: 10:05
Date Received: 05/20/22
Date Reported: 06/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 05/27/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/26/22				
Preparation Date: 05/25/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.08, IDOT 199-014 WO #6
Sample ID: 2233V3-1-07 (0-4)
Sample No: 22-3607-008

Date Collected: 05/20/22
Time Collected: 10:05
Date Received: 05/20/22
Date Reported: 06/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/26/22		Preparation Date: 05/25/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.08, IDOT 199-014 WO #6
Sample ID: 2233V3-1-07 (0-4)
Sample No: 22-3607-008

Date Collected: 05/20/22
Time Collected: 10:05
Date Received: 05/20/22
Date Reported: 06/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/26/22		Preparation Date: 05/25/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/25/22		Preparation Date: 05/25/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	8.8	1.0	mg/kg	
Barium	60.6	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	57,300	50	mg/kg	
Chromium	16.1	0.5	mg/kg	
Cobalt	10.3	0.5	mg/kg	
Copper	24.9	0.5	mg/kg	
Iron	21,800	5.0	mg/kg	
Lead	15.3	0.5	mg/kg	
Magnesium	30,300	50	mg/kg	
Manganese	661	0.5	mg/kg	
Nickel	26.4	0.5	mg/kg	
Potassium	1,780	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	154	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	21.5	1.0	mg/kg	
Zinc	65.9	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.08, IDOT 199-014 WO #6
Sample ID: 2233V3-1-07 (0-4)
Sample No: 22-3607-008

Date Collected: 05/20/22
Time Collected: 10:05
Date Received: 05/20/22
Date Reported: 06/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 05/26/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 05/27/22 10:30				
pH @ 25°C, 1:2	8.27		Units	
TCLP Extraction Method: 1311				
Analysis Date: 05/24/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 06/01/22				
Preparation Method 3010A				
Preparation Date: 06/01/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.0	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 06/01/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 05/24/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.08, IDOT 199-014 WO #6
Sample ID: 2233V3-1-07 (0-4)
Sample No: 22-3607-008

Date Collected: 05/20/22
Time Collected: 10:05
Date Received: 05/20/22
Date Reported: 06/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 06/01/22		Preparation Date: 06/01/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	2.5	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 06/03/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98.2	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	102.6	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	111.9	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	118	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	84	45	112
8270C	2-Fluorophenol (Surr)	%R:	52.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	125	*	56 - 120
8270C	d5-Nitrobenzene (Surr)	%R:	100		35 - 105
8270C	Phenol-d5 (surr)	%R:	72		50 - 100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 05/20/22

Project ID: PO# 81.0220714.08, IDOT 199-014 WO #6

Time Collected: 10:10

Sample ID: 2233V3-1-07 (5-9)

Date Received: 05/20/22

Sample No: 22-3607-009

Date Reported: 06/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 05/23/22				
Total Solids	85.41		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 05/27/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.08, IDOT 199-014 WO #6
Sample ID: 2233V3-1-07 (5-9)
Sample No: 22-3607-009

Date Collected: 05/20/22
Time Collected: 10:10
Date Received: 05/20/22
Date Reported: 06/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 05/27/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/26/22				
Preparation Date: 05/25/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.08, IDOT 199-014 WO #6
Sample ID: 2233V3-1-07 (5-9)
Sample No: 22-3607-009

Date Collected: 05/20/22
Time Collected: 10:10
Date Received: 05/20/22
Date Reported: 06/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/26/22		Preparation Date: 05/25/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.08, IDOT 199-014 WO #6
Sample ID: 2233V3-1-07 (5-9)
Sample No: 22-3607-009

Date Collected: 05/20/22
Time Collected: 10:10
Date Received: 05/20/22
Date Reported: 06/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/26/22		Preparation Date: 05/25/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/25/22		Preparation Date: 05/25/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	9.5	1.0	mg/kg	
Barium	101	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	40,500	50	mg/kg	
Chromium	17.6	0.5	mg/kg	
Cobalt	12.0	0.5	mg/kg	
Copper	22.0	0.5	mg/kg	
Iron	23,800	5.0	mg/kg	
Lead	15.5	0.5	mg/kg	
Magnesium	19,700	50	mg/kg	
Manganese	591	0.5	mg/kg	
Nickel	26.2	0.5	mg/kg	
Potassium	1,820	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	297	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	25.1	1.0	mg/kg	
Zinc	59.5	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.08, IDOT 199-014 WO #6
Sample ID: 2233V3-1-07 (5-9)
Sample No: 22-3607-009

Date Collected: 05/20/22
Time Collected: 10:10
Date Received: 05/20/22
Date Reported: 06/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 06/01/22		Preparation Date: 06/01/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	3.7	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 06/03/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	101.2	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	101.7	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	112.5	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	124	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	83	45	112
8270C	2-Fluorophenol (Surr)	%R:	54	41	84
8270C	d14-Terphenyl (Surr)	%R:	119	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	98	35	105
8270C	Phenol-d5 (surr)	%R:	73.5	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199.014-W06
Sample ID: 2233V3-1-14 (0-4)
Sample No: 22-3645-005

Date Collected: 05/23/22
Time Collected: 10:15
Date Received: 05/23/22
Date Reported: 06/08/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 05/25/22				
Total Solids	84.33		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 05/27/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199.014-W06
Sample ID: 2233V3-1-14 (0-4)
Sample No: 22-3645-005

Date Collected: 05/23/22
Time Collected: 10:15
Date Received: 05/23/22
Date Reported: 06/08/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 05/27/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/27/22				
Preparation Date: 05/26/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199.014-W06
Sample ID: 2233V3-1-14 (0-4)
Sample No: 22-3645-005

Date Collected: 05/23/22
Time Collected: 10:15
Date Received: 05/23/22
Date Reported: 06/08/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/27/22		Preparation Date: 05/26/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199.014-W06
Sample ID: 2233V3-1-14 (0-4)
Sample No: 22-3645-005

Date Collected: 05/23/22
Time Collected: 10:15
Date Received: 05/23/22
Date Reported: 06/08/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/27/22		Preparation Date: 05/26/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/26/22		Preparation Date: 05/25/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.0	1.0	mg/kg	
Barium	41.2	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	68,300	50	mg/kg	
Chromium	16.5	0.5	mg/kg	
Cobalt	9.8	0.5	mg/kg	
Copper	21.4	0.5	mg/kg	
Iron	19,200	5.0	mg/kg	
Lead	13.4	0.5	mg/kg	
Magnesium	34,600	50	mg/kg	
Manganese	401	0.5	mg/kg	
Nickel	25.7	0.5	mg/kg	
Potassium	2,270	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	1,080	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	21.2	1.0	mg/kg	
Zinc	61.0	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199.014-W06
Sample ID: 2233V3-1-14 (0-4)
Sample No: 22-3645-005

Date Collected: 05/23/22
Time Collected: 10:15
Date Received: 05/23/22
Date Reported: 06/08/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 06/08/22		Preparation Date: 06/06/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 06/03/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	96.7	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	102.2	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	110.8	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	69	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	68	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	59.5	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	98	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	73	35 -	105
8270C	Phenol-d5 (surr)	%R:	70.5	50 -	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199.014-W06
Sample ID: 2233V3-1-15 (0-2)
Sample No: 22-3645-006

Date Collected: 05/23/22
Time Collected: 10:25
Date Received: 05/23/22
Date Reported: 06/08/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 05/25/22				
Total Solids	84.47		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 05/27/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199.014-W06
Sample ID: 2233V3-1-15 (0-2)
Sample No: 22-3645-006

Date Collected: 05/23/22
Time Collected: 10:25
Date Received: 05/23/22
Date Reported: 06/08/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 05/27/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/27/22				
Preparation Date: 05/26/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199.014-W06
Sample ID: 2233V3-1-15 (0-2)
Sample No: 22-3645-006

Date Collected: 05/23/22
Time Collected: 10:25
Date Received: 05/23/22
Date Reported: 06/08/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/27/22		Preparation Date: 05/26/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199.014-W06
Sample ID: 2233V3-1-15 (0-2)
Sample No: 22-3645-006

Date Collected: 05/23/22
Time Collected: 10:25
Date Received: 05/23/22
Date Reported: 06/08/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/27/22		Preparation Date: 05/26/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/26/22		Preparation Date: 05/25/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.4	1.0	mg/kg	
Barium	43.4	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	77,700	50	mg/kg	
Chromium	15.7	0.5	mg/kg	
Cobalt	10.3	0.5	mg/kg	
Copper	24.4	0.5	mg/kg	
Iron	19,200	5.0	mg/kg	
Lead	13.3	0.5	mg/kg	
Magnesium	38,700	50	mg/kg	
Manganese	444	0.5	mg/kg	
Nickel	26.3	0.5	mg/kg	
Potassium	2,200	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	776	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	21.1	1.0	mg/kg	
Zinc	63.7	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199.014-W06
Sample ID: 2233V3-1-15 (0-2)
Sample No: 22-3645-006

Date Collected: 05/23/22
Time Collected: 10:25
Date Received: 05/23/22
Date Reported: 06/08/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 06/08/22		Preparation Date: 06/06/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.017	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.024	0.005	mg/L	
Iron	14.0	0.1	mg/L	
Lead	0.006	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 06/03/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	88.3	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.6	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	109.6	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	75.5	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	82	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	64	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	103	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	84	35 -	105
8270C	Phenol-d5 (surr)	%R:	74.5	50 -	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199.014-W06
Sample ID: 2233V3-1-16 (0-2)
Sample No: 22-3645-007

Date Collected: 05/23/22
Time Collected: 10:30
Date Received: 05/23/22
Date Reported: 06/08/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 05/25/22				
Total Solids	84.76		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 05/27/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199.014-W06
Sample ID: 2233V3-1-16 (0-2)
Sample No: 22-3645-007

Date Collected: 05/23/22
Time Collected: 10:30
Date Received: 05/23/22
Date Reported: 06/08/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 05/27/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/27/22				
Preparation Date: 05/26/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199.014-W06
Sample ID: 2233V3-1-16 (0-2)
Sample No: 22-3645-007

Date Collected: 05/23/22
Time Collected: 10:30
Date Received: 05/23/22
Date Reported: 06/08/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/27/22		Preparation Date: 05/26/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199.014-W06
Sample ID: 2233V3-1-16 (0-2)
Sample No: 22-3645-007

Date Collected: 05/23/22
Time Collected: 10:30
Date Received: 05/23/22
Date Reported: 06/08/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/27/22		Preparation Date: 05/26/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/26/22		Preparation Date: 05/25/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.6	1.0	mg/kg	
Barium	48.4	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	64,500	50	mg/kg	
Chromium	17.2	0.5	mg/kg	
Cobalt	11.9	0.5	mg/kg	
Copper	24.5	0.5	mg/kg	
Iron	21,000	5.0	mg/kg	
Lead	15.7	0.5	mg/kg	
Magnesium	31,700	50	mg/kg	
Manganese	501	0.5	mg/kg	
Nickel	28.7	0.5	mg/kg	
Potassium	2,310	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	669	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	22.0	1.0	mg/kg	
Zinc	80.5	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199.014-W06
Sample ID: 2233V3-1-16 (0-2)
Sample No: 22-3645-007

Date Collected: 05/23/22
Time Collected: 10:30
Date Received: 05/23/22
Date Reported: 06/08/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 06/08/22		Preparation Date: 06/06/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.008	0.005	mg/L	
Iron	4.4	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 06/03/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	89.2	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	100.7	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	107.2	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	76	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	78	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	57	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	101	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	80	35 -	105
8270C	Phenol-d5 (surr)	%R:	72	50 -	100