

**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 07 I80 at EB Weigh Station - PSI Office Phone Number, if available: 847-705-4122

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

Site I80-EB, see attached documentation

City: Mokena State: IL Zip Code: 60448

County: Will Township: Frankfort

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

Latitude: 41.55189 Longitude: - 87.90135

(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.): 421

### 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 4-1.1 through 4-1.3 in the Final PSI Report and borings I80-EB-01 (Weigh Station Ramp 96+05, 20 Right), I80-EB-03 (Weigh Station Ramp 100+00, 20 Right), I80-EB-05 (Weigh Station Ramp 104+00, 20 Right), and I80-EB-08 (Weigh Station Ramp 110+00, 25 Right).

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 number #22-4392. 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:

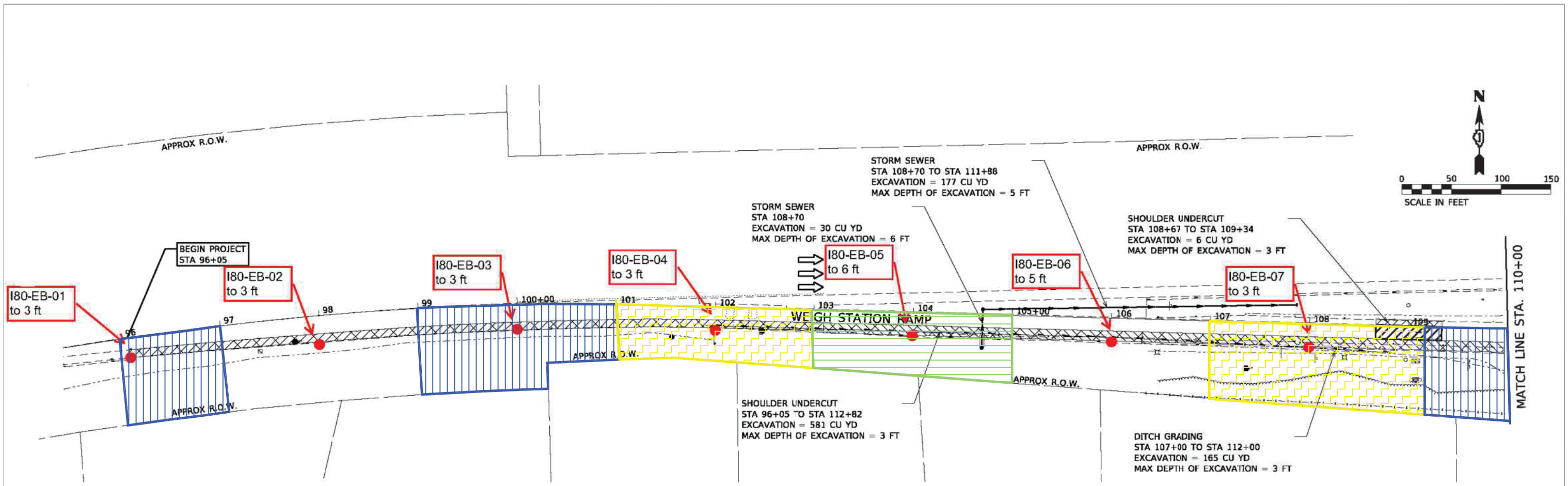
  
\_\_\_\_\_  
Licensed Professional Engineer or  
Licensed Professional Geologist Signature:

Jul 8, 2022

Date:



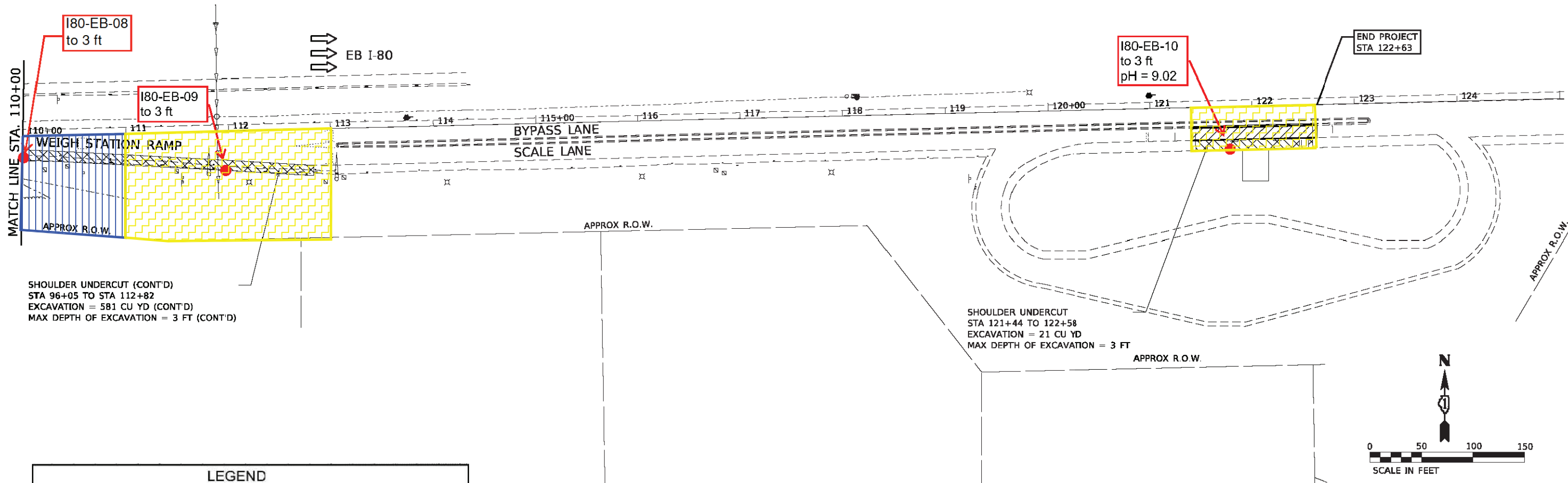
P.E or L.P.G. Seal:



LEGEND	
	SOIL BORING LOCATION
	IDENTIFIED SITE WITH EXCAVATION
	APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < BACKGROUND). MATERIAL MAY BE MANAGED ON-SITE OR AS NON-SPECIAL WASTE (a(1)).
	APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < MAC FOR MSA). MATERIAL MAY BE MANAGED ON-SITE OR TO A CCDDIUSFO WITHIN A MSA COUNTY (a(2)).
	APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < MAC FOR MSA OR CHICAGO CORPORATE LIMITS). MATERIAL MAY BE MANAGED ON-SITE OR TO A CCDDIUSFO WITHIN A MSA COUNTY EXCLUDING CHICAGO OR WITHIN CHICAGO CORPORATE LIMITS (a(3)).
	APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < MAC FOR MSA COUNTY EXCLUDING CHICAGO). MATERIAL MAY BE MANAGED ON-SITE OR TO A CCDDIUSFO FACILITY WITHIN A MSA COUNTY EXCLUDING CHICAGO (A(4)).
	APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS. MATERIAL MAY BE MANAGED AS A NON-SPECIAL WASTE (a(5)).
	APPROXIMATE CONSTRUCTION AREA ESTIMATED TO NOT EXCEED MOST STRINGENT MAC VALUE WITH SOIL pH OUTSIDE RANGE 6.25-9.0 TO BE MANAGED ON-SITE OR AS NON-SPECIAL WASTE (b(1)).
	APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED TACO TIER 1 CONSTRUCTION WORKERS REFERENCE CONCENTRATIONS.
AREAS WITHOUT HATCHING ARE CONSIDERED UNRESTRICTED FOR REUSE AND OFF-SITE DISPOSAL.	

Figure 4-1.1 Extent of Potentially Impacted Soil  
Huff & Huff, Inc. 199-014 WO #7A

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PESA RESPONSE EXHIBIT I-80 EB Weigh Stn.	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN -	REVISED -			1261	S30N-3	LAKE	2	1	
		CHECKED -	REVISED -			CONTRACT NO.					
		DATE -	REVISED -			ILLINOIS					
				SCALE: 1" = 100'	SHEET NO. 1 OF 2 SHEETS	STA.	TO STA.				



SHOULDER UNDERCUT (CONT'D)  
 STA 96+05 TO STA 112+82  
 EXCAVATION = 581 CU YD (CONT'D)  
 MAX DEPTH OF EXCAVATION = 3 FT (CONT'D)

SHOULDER UNDERCUT  
 STA 121+44 TO 122+58  
 EXCAVATION = 21 CU YD  
 MAX DEPTH OF EXCAVATION = 3 FT

LEGEND	
	SOIL BORING LOCATION
	IDENTIFIED SITE WITH EXCAVATION
	APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED SOIL REFERENCE CONCENTRATIONS (P MOST STRINGENT MAC BUT < BACKGROUND). MATERIAL MAY BE MANAGED ON SITE OR AS NON-SPECIAL WASTE (a(1)).
	APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS (P MOST STRINGENT MAC BUT < MAC FOR MSA). MATERIAL MAY BE MANAGED ON-SITE OR TO A CCDD/USFO WITHIN A MSA COUNTY (a(2)).
	APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS (P MOST STRINGENT MAC BUT < MAC FOR MSA OR CHICAGO CORPORATE LIMITS). MATERIAL MAY BE MANAGED ON-SITE OR TO A CCDD/USFO WITHIN A MSA COUNTY EXCLUDING CHICAGO OR WITHIN CHICAGO CORPORATE LIMITS (a(3)).
	APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS (P MOST STRINGENT MAC BUT < MAC FOR MSA COUNTY EXCLUDING CHICAGO). MATERIAL MAY BE MANAGED ON-SITE OR TO A CCDD/USFO FACILITY WITHIN A MSA COUNTY EXCLUDING CHICAGO (A(4)).
	APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS. MATERIAL MAY BE MANAGED AS A NON-SPECIAL WASTE (a(5)).
	APPROXIMATE CONSTRUCTION AREA ESTIMATED TO NOT EXCEED MOST STRINGENT MAC VALUE WITH SOIL pH OUTSIDE RANGE 6.25-9.0 TO BE MANAGED ON-SITE OR AS NON-SPECIAL WASTE (b(1)).
	APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED TACO TIER 1 CONSTRUCTION WORKERS REFERENCE CONCENTRATIONS.
AREAS WITHOUT HATCHING ARE CONSIDERED UNRESTRICTED FOR REUSE AND OFF-SITE DISPOSAL.	

Figure 4-1.2 Extent of Potentially Impacted Soil  
 Huff & Huff, Inc. 199-014 WO #7A

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PESA RESPONSE EXHIBIT I-80 EB Weigh Stn.		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
		DRAWN -	REVISED -				1261	S30N-3	LAKE	2	2		
		CHECKED -	REVISED -				CONTRACT NO.						
		DATE -	REVISED -				ILLINOIS						
				SCALE: 1" = 100'	SHEET NO. 2 OF 2 SHEETS	STA.	TO STA.						

FIGURE 4-1.1 (Page 1 of 1)  
 EXTENT OF POTENTIALLY IMPACTED SOIL - EXCEEDANCE TABLE  
 IDOT, District One  
 I-80 at EB Weigh Station  
 Mokena, Will County, Illinois  
 BDE Sequence No.: 24645  
 PTB: 199-014/HH-2, Work Order 7A

Boring ID Sample Depth, ft Sample Date Excavation Area(s) [ISGS Site No.(s)]	Soil Reference Concentrations <sup>a/</sup>	Soil Remediation Objective for Construction Workers <sup>b/</sup>		Soil Remediation Objective for Residential Exposure <sup>c/</sup>		180-EB-01	180-EB-03	180-EB-05	180-EB-05	180-EB-08
		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	(0-3)	(0-3)	(0-3)	(3-6)	(0-3)
						6/15/2022	6/15/2022	6/15/2022	6/15/2022	6/15/2022
<b>Parameter</b>										
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.80	8.38	8.03	8.78	7.94
PID Readings (ppm)						0.0	0.0	0.0	0.0	0.0
<b>VOCs, mg/kg</b>						NO EXCEEDANCES				
<b>SVOCs, mg/kg</b>										
Benzo(a)pyrene	0.09 / 1.3 / 2.1	17	---	0.09	---	<0.09	<0.09	<b>0.097</b>	<0.09	<0.09
<b>Total Metals, mg/kg</b>										
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	<b>6.3</b>	<b>9.9</b>	<b>8.3</b>	<b>7.3</b>	<b>8.3</b>
Barium	1,500	14,000	870,000	5,500	690,000	<b>41.1</b>	<b>36.7</b>	<b>68.7</b>	<b>20.6</b>	<b>60.1</b>
Beryllium	22	410	44,000	160	1,300	<b>0.5</b>	<0.5	<b>0.6</b>	<b>0.5</b>	<b>0.6</b>
Cadmium	5.2	200	59,000	78	1,800	<0.5	<0.5	<0.5	<0.5	<0.5
Calcium	---	---	---	---	---	<b>56300</b>	<b>45500</b>	<b>18600</b>	<b>41200</b>	<b>16100</b>
Chromium	21	4100	690	230	270	<b>17.3</b>	<b>14.3</b>	<b>16.3</b>	<b>17.1</b>	<b>19.2</b>
Cobalt	20	12000	---	4,700	---	<b>6.9</b>	<b>11.2</b>	<b>12.7</b>	<b>8.3</b>	<b>12.6</b>
Copper	2,900	8,200	---	2,900	---	<b>25.7</b>	<b>28.4</b>	<b>24.6</b>	<b>29.9</b>	<b>27.3</b>
Iron	15,000 / 15,900	---	---	---	---	<b>20200</b>	<b>22300</b>	<b>19000</b>	<b>21800</b>	<b>22600</b>
Lead	107	700	---	400	---	<b>10.2</b>	<b>20.4</b>	<b>71.9</b>	<b>16.8</b>	<b>21.8</b>
Magnesium	325,000	730,000	---	325,000	---	<b>24500</b>	<b>23800</b>	<b>12700</b>	<b>24900</b>	<b>11000</b>
Manganese	630 / 636	4100	8,700	1,600	---	<b>258</b>	<b>443</b>	<b>485</b>	<b>445</b>	<b>395</b>
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	<b>23.3</b>	<b>29</b>	<b>24.6</b>	<b>29.4</b>	<b>29.5</b>
Potassium	---	---	---	---	---	<b>1640</b>	<b>1790</b>	<b>1490</b>	<b>2450</b>	<b>1800</b>
Selenium	1.3	1000	---	390	---	<1.0	<1.0	<1.0	<1.0	1.1
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<0.2	<0.2
Sodium	---	---	---	---	---	<b>2210</b>	<b>1060</b>	<b>1290</b>	<b>1000</b>	<b>1010</b>
Thallium	2.6	160	---	6.3	---	<1.0	<1.0	<1.0	<1.0	<1.0
Vanadium	550	1400	---	550	---	<b>19.9</b>	<b>16.3</b>	<b>24.7</b>	<b>17</b>	<b>24.4</b>
Zinc	5,100	61,000	---	23,000	---	<b>55.6</b>	<b>65.1</b>	<b>99.8</b>	<b>65</b>	<b>61.7</b>
<b>TCLP Metals, mg/L</b>			Class I Groundwater <sup>d/</sup>							
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			<b>0.1</b>	<0.1	<b>0.4</b>	<0.1	<b>1.3</b>
Lead			0.0075			<0.005	<0.005	<b>0.043</b>	<0.005	<b>0.018</b>
Manganese			0.15			<b>9.3</b>	<b>4.2</b>	<b>13.6</b>	<b>2.6</b>	<b>7.3</b>
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	<b>0.012</b>	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005	<0.005
Zinc			5			<0.1	<0.1	<b>0.4</b>	<0.1	<0.1
<b>SPLP Metals, mg/L</b>			Class I Groundwater <sup>d/</sup>							
Arsenic			0.05			<b>0.022</b>	<b>0.043</b>	<b>0.022</b>	<b>0.052</b>	<b>0.022</b>
Barium			2			<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<b>0.004</b>	<b>0.004</b>	<b>0.004</b>	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<b>0.005</b>	<0.005
Chromium			0.1			<b>0.063</b>	<b>0.077</b>	<b>0.086</b>	<b>0.085</b>	<b>0.052</b>
Cobalt			1			<0.1	<0.1	<0.1	<0.1	<0.1
Copper			0.65			<b>0.067</b>	<b>0.135</b>	<b>0.106</b>	<b>0.133</b>	<b>0.062</b>
Iron			5			<b>68.2</b>	<b>106</b>	<b>78.7</b>	<b>119</b>	<b>57.6</b>
Lead			0.0075			<b>0.046</b>	<b>0.069</b>	<b>0.328</b>	<b>0.069</b>	<b>0.038</b>
Manganese			0.15			<b>0.6</b>	<b>1.1</b>	<b>1</b>	<b>0.8</b>	<b>0.7</b>
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<b>0.1</b>	<0.1	<b>0.1</b>	<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			<b>0.2</b>	<b>0.3</b>	<b>0.6</b>	<b>0.4</b>	<b>0.1</b>

--- - Refers to not applicable or value not available  
<sup>a/</sup> 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.  
<sup>b/</sup> Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B  
<sup>c/</sup> Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A  
<sup>d/</sup> 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:** 06/15/22

**Project ID:** 81.0220714.10 IDOT 199-014 WO#7

**Time Collected:** 9:15

**Sample ID:** I80-EB-01 (0-3)

**Date Received:** 06/15/22

**Sample No:** 22-4392-001

**Date Reported:** 07/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 06/16/22				
Total Solids	90.49		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 06/17/22				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.10 IDOT 199-014 WO#7  
**Sample ID:** I80-EB-01 (0-3)  
**Sample No:** 22-4392-001

**Date Collected:** 06/15/22  
**Time Collected:** 9:15  
**Date Received:** 06/15/22  
**Date Reported:** 07/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 06/17/22				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 06/21/22				
Preparation Date: 06/20/22				
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	
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	





## Analytical Report

**Client:** HUFF & HUFF INC.

**Date Collected:** 06/15/22

**Project ID:** 81.0220714.10 IDOT 199-014 WO#7

**Time Collected:** 9:15

**Sample ID:** I80-EB-01 (0-3)

**Date Received:** 06/15/22

**Sample No:** 22-4392-001

**Date Reported:** 07/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>				
Analysis Date: 06/21/22				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.

**Date Collected:** 06/15/22

**Project ID:** 81.0220714.10 IDOT 199-014 WO#7

**Time Collected:** 9:15

**Sample ID:** I80-EB-01 (0-3)

**Date Received:** 06/15/22

**Sample No:** 22-4392-001

**Date Reported:** 07/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>				
<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>		
Analysis Date: 06/21/22		Preparation Date: 06/20/22		
2,4,6-Trichlorophenol	< 330	330	ug/kg	
<b>Total Metals</b>				
<b>Method: 6010C</b>		<b>Preparation Method 3050B</b>		
Analysis Date: 06/22/22		Preparation Date: 06/20/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.3	1.0	mg/kg	
Barium	41.1	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	56,300	50	mg/kg	
Chromium	17.3	0.5	mg/kg	
Cobalt	6.9	0.5	mg/kg	
Copper	25.7	0.5	mg/kg	
Iron	20,200	5.0	mg/kg	
Lead	10.2	0.5	mg/kg	
Magnesium	24,500	50	mg/kg	
Manganese	258	0.5	mg/kg	
Nickel	23.3	0.5	mg/kg	
Potassium	1,640	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	2,210	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	19.9	1.0	mg/kg	
Zinc	55.6	1.0	mg/kg	
<b>Total Mercury</b>				
<b>Method: 7471B</b>				
Analysis Date: 06/21/22				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>				
<b>Method: 9045D</b>				
Analysis Date: 06/21/22 7:50				
pH @ 25°C, 1:2	8.80		Units	
<b>TCLP Extraction</b>				
<b>Method: 1311</b>				
Analysis Date: 06/22/22				
TCLP Extraction	Complete			



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.10 IDOT 199-014 WO#7  
**Sample ID:** I80-EB-01 (0-3)  
**Sample No:** 22-4392-001

**Date Collected:** 06/15/22  
**Time Collected:** 9:15  
**Date Received:** 06/15/22  
**Date Reported:** 07/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Metals Method 1311</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 07/05/22		Preparation Date: 06/29/22		
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	9.3	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	< 0.1	0.1	mg/L	
<b>TCLP Mercury Method 1311</b>		<b>Method: 7470A</b>		
Analysis Date: 06/24/22				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction</b>		<b>Method: 1312</b>		
Analysis Date: 06/22/22				
SPLP Metals Extraction		Complete		
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 07/05/22		Preparation Date: 06/29/22		
Arsenic	0.022	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	0.063	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.067	0.005	mg/L	
Iron	68.2	0.1	mg/L	
Lead	0.046	0.005	mg/L	
Manganese	0.6	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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.10 IDOT 199-014 WO#7  
**Sample ID:** I80-EB-01 (0-3)  
**Sample No:** 22-4392-001

**Date Collected:** 06/15/22  
**Time Collected:** 9:15  
**Date Received:** 06/15/22  
**Date Reported:** 07/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b> Analysis Date: 07/05/22		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b> Preparation Date: 06/29/22
Zinc	0.2	0.1	mg/L	
<b>SPLP Mercury Method 1312</b> Analysis Date: 06/27/22		<b>Method: 7470A</b>		
Mercury	< 0.0005	0.0005	mg/L	



### Analytical Report

**Client:** HUFF & HUFF INC.

**Date Collected:** 06/15/22

**Project ID:** 81.0220714.10 IDOT 199-014 WO#7

**Time Collected:** 9:30

**Sample ID:** I80-EB-03 (0-3)

**Date Received:** 06/15/22

**Sample No:** 22-4392-003

**Date Reported:** 07/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 06/16/22				
Total Solids	93.21		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 06/17/22				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.10 IDOT 199-014 WO#7  
**Sample ID:** I80-EB-03 (0-3)  
**Sample No:** 22-4392-003

**Date Collected:** 06/15/22  
**Time Collected:** 9:30  
**Date Received:** 06/15/22  
**Date Reported:** 07/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 06/17/22				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 06/21/22				
Preparation Date: 06/20/22				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.10 IDOT 199-014 WO#7  
**Sample ID:** I80-EB-03 (0-3)  
**Sample No:** 22-4392-003

**Date Collected:** 06/15/22  
**Time Collected:** 9:30  
**Date Received:** 06/15/22  
**Date Reported:** 07/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>				
Analysis Date: 06/21/22				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.

**Date Collected:** 06/15/22

**Project ID:** 81.0220714.10 IDOT 199-014 WO#7

**Time Collected:** 9:30

**Sample ID:** I80-EB-03 (0-3)

**Date Received:** 06/15/22

**Sample No:** 22-4392-003

**Date Reported:** 07/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>				
<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>		
Analysis Date: 06/21/22		Preparation Date: 06/20/22		
2,4,6-Trichlorophenol	< 330	330	ug/kg	
<b>Total Metals</b>				
<b>Method: 6010C</b>		<b>Preparation Method 3050B</b>		
Analysis Date: 06/22/22		Preparation Date: 06/20/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	9.9	1.0	mg/kg	
Barium	36.7	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	45,500	50	mg/kg	
Chromium	14.3	0.5	mg/kg	
Cobalt	11.2	0.5	mg/kg	
Copper	28.4	0.5	mg/kg	
Iron	22,300	5.0	mg/kg	
Lead	20.4	0.5	mg/kg	
Magnesium	23,800	50	mg/kg	
Manganese	443	0.5	mg/kg	
Nickel	29.0	0.5	mg/kg	
Potassium	1,790	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	1,060	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	16.3	1.0	mg/kg	
Zinc	65.1	1.0	mg/kg	
<b>Total Mercury</b>				
<b>Method: 7471B</b>				
Analysis Date: 06/21/22				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>				
<b>Method: 9045D</b>				
Analysis Date: 06/21/22 7:50				
pH @ 25°C, 1:2	8.38		Units	
<b>TCLP Extraction</b>				
<b>Method: 1311</b>				
Analysis Date: 06/22/22				
TCLP Extraction	Complete			





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.10 IDOT 199-014 WO#7  
**Sample ID:** I80-EB-03 (0-3)  
**Sample No:** 22-4392-003

**Date Collected:** 06/15/22  
**Time Collected:** 9:30  
**Date Received:** 06/15/22  
**Date Reported:** 07/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Metals Method 1311</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 07/05/22		Preparation Date: 06/29/22		
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	4.2	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	
<b>TCLP Mercury Method 1311</b>		<b>Method: 7470A</b>		
Analysis Date: 06/24/22				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction</b>		<b>Method: 1312</b>		
Analysis Date: 06/22/22				
SPLP Metals Extraction		Complete		
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 07/05/22		Preparation Date: 06/29/22		
Arsenic	0.043	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	0.077	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.135	0.005	mg/L	
Iron	106	0.1	mg/L	
Lead	0.069	0.005	mg/L	
Manganese	1.1	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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.10 IDOT 199-014 WO#7  
**Sample ID:** I80-EB-03 (0-3)  
**Sample No:** 22-4392-003

**Date Collected:** 06/15/22  
**Time Collected:** 9:30  
**Date Received:** 06/15/22  
**Date Reported:** 07/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b> Analysis Date: 07/05/22		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b> Preparation Date: 06/29/22
Zinc	0.3	0.1	mg/L	
<b>SPLP Mercury Method 1312</b> Analysis Date: 06/27/22		<b>Method: 7470A</b>		
Mercury	< 0.0005	0.0005	mg/L	



### Analytical Report

**Client:** HUFF & HUFF INC.

**Date Collected:** 06/15/22

**Project ID:** 81.0220714.10 IDOT 199-014 WO#7

**Time Collected:** 9:55

**Sample ID:** I80-EB-05 (0-3)

**Date Received:** 06/15/22

**Sample No:** 22-4392-005

**Date Reported:** 07/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 06/16/22				
Total Solids	86.53		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 06/17/22				
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	
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	



## Analytical Report

**Client:** HUFF & HUFF INC.

**Date Collected:** 06/15/22

**Project ID:** 81.0220714.10 IDOT 199-014 WO#7

**Time Collected:** 9:55

**Sample ID:** I80-EB-05 (0-3)

**Date Received:** 06/15/22

**Sample No:** 22-4392-005

**Date Reported:** 07/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 06/17/22				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 06/23/22				
Preparation Date: 06/21/22				
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	97	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	
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	



## Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.10 IDOT 199-014 WO#7  
**Sample ID:** I80-EB-05 (0-3)  
**Sample No:** 22-4392-005

**Date Collected:** 06/15/22  
**Time Collected:** 9:55  
**Date Received:** 06/15/22  
**Date Reported:** 07/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>				
Analysis Date: 06/23/22				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.

**Date Collected:** 06/15/22

**Project ID:** 81.0220714.10 IDOT 199-014 WO#7

**Time Collected:** 9:55

**Sample ID:** I80-EB-05 (0-3)

**Date Received:** 06/15/22

**Sample No:** 22-4392-005

**Date Reported:** 07/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>				
<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>		
Analysis Date: 06/23/22		Preparation Date: 06/21/22		
2,4,6-Trichlorophenol	< 330	330	ug/kg	
<b>Total Metals</b>				
<b>Method: 6010C</b>		<b>Preparation Method 3050B</b>		
Analysis Date: 06/22/22		Preparation Date: 06/20/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	8.3	1.0	mg/kg	
Barium	68.7	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	18,600	50	mg/kg	
Chromium	16.3	0.5	mg/kg	
Cobalt	12.7	0.5	mg/kg	
Copper	24.6	0.5	mg/kg	
Iron	19,000	5.0	mg/kg	
Lead	71.9	0.5	mg/kg	
Magnesium	12,700	50	mg/kg	
Manganese	485	0.5	mg/kg	
Nickel	24.6	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	1,290	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	24.7	1.0	mg/kg	
Zinc	99.8	1.0	mg/kg	
<b>Total Mercury</b>				
<b>Method: 7471B</b>				
Analysis Date: 06/21/22				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>				
<b>Method: 9045D</b>				
Analysis Date: 06/21/22 7:50				
pH @ 25°C, 1:2	8.03		Units	
<b>TCLP Extraction</b>				
<b>Method: 1311</b>				
Analysis Date: 06/22/22				
TCLP Extraction	Complete			



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.10 IDOT 199-014 WO#7  
**Sample ID:** I80-EB-05 (0-3)  
**Sample No:** 22-4392-005

**Date Collected:** 06/15/22  
**Time Collected:** 9:55  
**Date Received:** 06/15/22  
**Date Reported:** 07/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Metals Method 1311</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 07/05/22		Preparation Date: 06/29/22		
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	0.043	0.005	mg/L	
Manganese	13.6	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	0.012	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.4	0.1	mg/L	
<b>TCLP Mercury Method 1311</b>		<b>Method: 7470A</b>		
Analysis Date: 06/24/22				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction</b>		<b>Method: 1312</b>		
Analysis Date: 06/22/22				
SPLP Metals Extraction		Complete		
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 07/05/22		Preparation Date: 06/29/22		
Arsenic	0.022	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	0.086	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.106	0.005	mg/L	
Iron	78.7	0.1	mg/L	
Lead	0.328	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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.10 IDOT 199-014 WO#7  
**Sample ID:** I80-EB-05 (0-3)  
**Sample No:** 22-4392-005

**Date Collected:** 06/15/22  
**Time Collected:** 9:55  
**Date Received:** 06/15/22  
**Date Reported:** 07/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b> Analysis Date: 07/05/22		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b> Preparation Date: 06/29/22
Zinc	0.6	0.1	mg/L	
<b>SPLP Mercury Method 1312</b> Analysis Date: 06/27/22		<b>Method: 7470A</b>		
Mercury	< 0.0005	0.0005	mg/L	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.10 IDOT 199-014 WO#7  
**Sample ID:** I80-EB-05 (3-6)  
**Sample No:** 22-4392-006

**Date Collected:** 06/15/22  
**Time Collected:** 10:00  
**Date Received:** 06/15/22  
**Date Reported:** 07/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 06/16/22				
Total Solids	88.86		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 06/17/22				
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	
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	



## Analytical Report

**Client:** HUFF & HUFF INC.

**Date Collected:** 06/15/22

**Project ID:** 81.0220714.10 IDOT 199-014 WO#7

**Time Collected:** 10:00

**Sample ID:** I80-EB-05 (3-6)

**Date Received:** 06/15/22

**Sample No:** 22-4392-006

**Date Reported:** 07/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 06/17/22				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 06/23/22				
Preparation Date: 06/21/22				
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	
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	



## Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.10 IDOT 199-014 WO#7  
**Sample ID:** I80-EB-05 (3-6)  
**Sample No:** 22-4392-006

**Date Collected:** 06/15/22  
**Time Collected:** 10:00  
**Date Received:** 06/15/22  
**Date Reported:** 07/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>				
Analysis Date: 06/23/22				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.

**Date Collected:** 06/15/22

**Project ID:** 81.0220714.10 IDOT 199-014 WO#7

**Time Collected:** 10:00

**Sample ID:** I80-EB-05 (3-6)

**Date Received:** 06/15/22

**Sample No:** 22-4392-006

**Date Reported:** 07/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>				
<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>		
Analysis Date: 06/23/22		Preparation Date: 06/21/22		
2,4,6-Trichlorophenol	< 330	330	ug/kg	
<b>Total Metals</b>				
<b>Method: 6010C</b>		<b>Preparation Method 3050B</b>		
Analysis Date: 06/22/22		Preparation Date: 06/20/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.3	1.0	mg/kg	
Barium	20.6	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	41,200	50	mg/kg	
Chromium	17.1	0.5	mg/kg	
Cobalt	8.3	0.5	mg/kg	
Copper	29.9	0.5	mg/kg	
Iron	21,800	5.0	mg/kg	
Lead	16.8	0.5	mg/kg	
Magnesium	24,900	50	mg/kg	
Manganese	445	0.5	mg/kg	
Nickel	29.4	0.5	mg/kg	
Potassium	2,450	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	1,000	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	17.0	1.0	mg/kg	
Zinc	65.0	1.0	mg/kg	
<b>Total Mercury</b>				
<b>Method: 7471B</b>				
Analysis Date: 06/21/22				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>				
<b>Method: 9045D</b>				
Analysis Date: 06/21/22 7:50				
pH @ 25°C, 1:2	8.78		Units	
<b>TCLP Extraction</b>				
<b>Method: 1311</b>				
Analysis Date: 06/22/22				
TCLP Extraction	Complete			



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.10 IDOT 199-014 WO#7  
**Sample ID:** I80-EB-05 (3-6)  
**Sample No:** 22-4392-006

**Date Collected:** 06/15/22  
**Time Collected:** 10:00  
**Date Received:** 06/15/22  
**Date Reported:** 07/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Metals Method 1311</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 07/05/22		Preparation Date: 06/29/22		
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	2.6	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	
<b>TCLP Mercury Method 1311</b>		<b>Method: 7470A</b>		
Analysis Date: 06/24/22				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction</b>		<b>Method: 1312</b>		
Analysis Date: 06/22/22				
SPLP Metals Extraction		Complete		
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 07/05/22		Preparation Date: 06/29/22		
Arsenic	0.052	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	0.085	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.133	0.005	mg/L	
Iron	119	0.1	mg/L	
Lead	0.069	0.005	mg/L	
Manganese	0.8	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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.10 IDOT 199-014 WO#7  
**Sample ID:** I80-EB-05 (3-6)  
**Sample No:** 22-4392-006

**Date Collected:** 06/15/22  
**Time Collected:** 10:00  
**Date Received:** 06/15/22  
**Date Reported:** 07/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		
Analysis Date: 07/05/22		Preparation Method <b>3010A</b>		
		Preparation Date: 06/29/22		
Zinc	0.4	0.1	mg/L	
<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 06/27/22				
Mercury	< 0.0005	0.0005	mg/L	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.10 IDOT 199-014 WO#7  
**Sample ID:** I80-EB-08 (0-3)  
**Sample No:** 22-4392-009

**Date Collected:** 06/15/22  
**Time Collected:** 10:25  
**Date Received:** 06/15/22  
**Date Reported:** 07/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 06/16/22				
Total Solids	84.76		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 06/17/22				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.10 IDOT 199-014 WO#7  
**Sample ID:** I80-EB-08 (0-3)  
**Sample No:** 22-4392-009

**Date Collected:** 06/15/22  
**Time Collected:** 10:25  
**Date Received:** 06/15/22  
**Date Reported:** 07/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 06/17/22				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 06/23/22				
Preparation Date: 06/21/22				
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	
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	





## Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.10 IDOT 199-014 WO#7  
**Sample ID:** I80-EB-08 (0-3)  
**Sample No:** 22-4392-009

**Date Collected:** 06/15/22  
**Time Collected:** 10:25  
**Date Received:** 06/15/22  
**Date Reported:** 07/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>				
Analysis Date: 06/23/22				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.

**Date Collected:** 06/15/22

**Project ID:** 81.0220714.10 IDOT 199-014 WO#7

**Time Collected:** 10:25

**Sample ID:** I80-EB-08 (0-3)

**Date Received:** 06/15/22

**Sample No:** 22-4392-009

**Date Reported:** 07/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>				
<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>		
Analysis Date: 06/23/22		Preparation Date: 06/21/22		
2,4,6-Trichlorophenol	< 330	330	ug/kg	
<b>Total Metals</b>				
<b>Method: 6010C</b>		<b>Preparation Method 3050B</b>		
Analysis Date: 06/22/22		Preparation Date: 06/20/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	8.3	1.0	mg/kg	
Barium	60.1	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	16,100	50	mg/kg	
Chromium	19.2	0.5	mg/kg	
Cobalt	12.6	0.5	mg/kg	
Copper	27.3	0.5	mg/kg	
Iron	22,600	5.0	mg/kg	
Lead	21.8	0.5	mg/kg	
Magnesium	11,000	50	mg/kg	
Manganese	395	0.5	mg/kg	
Nickel	29.5	0.5	mg/kg	
Potassium	1,800	50	mg/kg	
Selenium	1.1	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	1,010	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	24.4	1.0	mg/kg	
Zinc	61.7	1.0	mg/kg	
<b>Total Mercury</b>				
<b>Method: 7471B</b>				
Analysis Date: 06/21/22				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>				
<b>Method: 9045D</b>				
Analysis Date: 06/21/22 7:50				
pH @ 25°C, 1:2	7.94		Units	
<b>TCLP Extraction</b>				
<b>Method: 1311</b>				
Analysis Date: 06/22/22				
TCLP Extraction	Complete			



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.10 IDOT 199-014 WO#7  
**Sample ID:** I80-EB-08 (0-3)  
**Sample No:** 22-4392-009

**Date Collected:** 06/15/22  
**Time Collected:** 10:25  
**Date Received:** 06/15/22  
**Date Reported:** 07/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Metals Method 1311</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 07/05/22		Preparation Date: 06/29/22		
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	1.3	0.1	mg/L	
Lead	0.018	0.005	mg/L	
Manganese	7.3	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	< 0.1	0.1	mg/L	
<b>TCLP Mercury Method 1311</b>		<b>Method: 7470A</b>		
Analysis Date: 06/24/22				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction</b>		<b>Method: 1312</b>		
Analysis Date: 06/22/22				
SPLP Metals Extraction		Complete		
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 07/05/22		Preparation Date: 06/29/22		
Arsenic	0.022	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	0.052	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.062	0.005	mg/L	
Iron	57.6	0.1	mg/L	
Lead	0.038	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	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.10 IDOT 199-014 WO#7  
**Sample ID:** I80-EB-08 (0-3)  
**Sample No:** 22-4392-009

**Date Collected:** 06/15/22  
**Time Collected:** 10:25  
**Date Received:** 06/15/22  
**Date Reported:** 07/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		
Analysis Date: 07/05/22		Preparation Method 3010A		
		Preparation Date: 06/29/22		
Zinc	0.1	0.1	mg/L	
<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 06/27/22				
Mercury	< 0.0005	0.0005	mg/L	





# 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 07 I80 at EB Weigh Station - PSI Office Phone Number, if available: 847-705-4122

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

Site I80-EB, see attached documentation

City: Mokena State: IL Zip Code: 60448

County: Will Township: Frankfort

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

Latitude: 41.55189 Longitude: - 87.90135

(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.): 140

### 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 I80-EB-02 (Weigh Station Ramp 98+00, 20 Right) and I80-EB-06 (Weigh Station Ramp 106+00, 20 Right).

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 number #22-4392. 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.

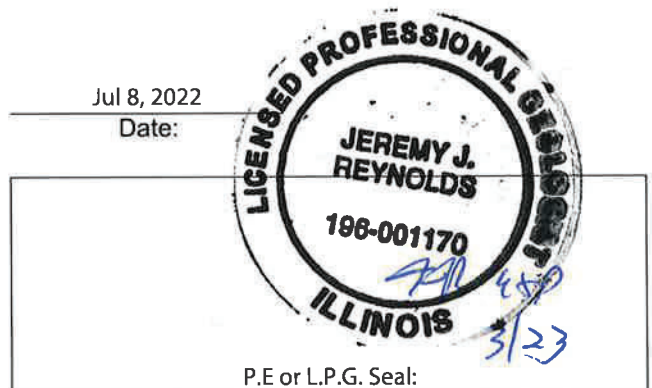
**Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))**

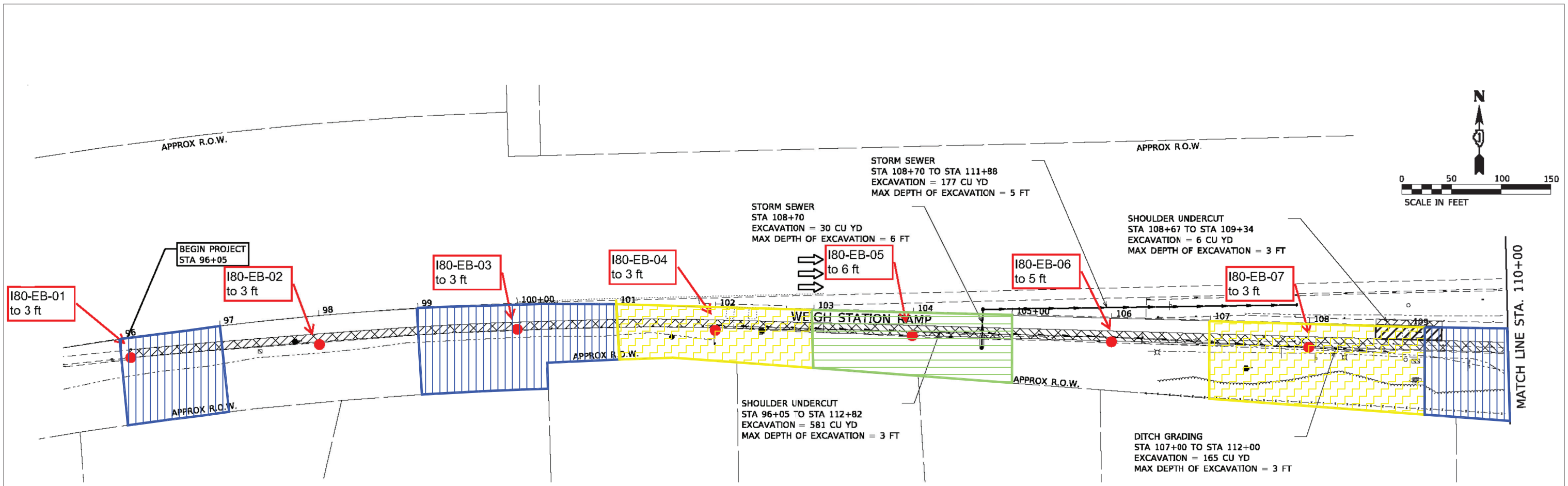
Company Name: Huff & Huff, Inc. / GZA GeoEnvironmental, Inc.  
Street Address: 915 Harger Road, Suite 330  
City: Oak Brook State: IL Zip Code: 60523  
Phone: 630-684-9100

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

  
Licensed Professional Engineer or  
Licensed Professional Geologist Signature:

Jul 8, 2022  
Date:





**LEGEND**

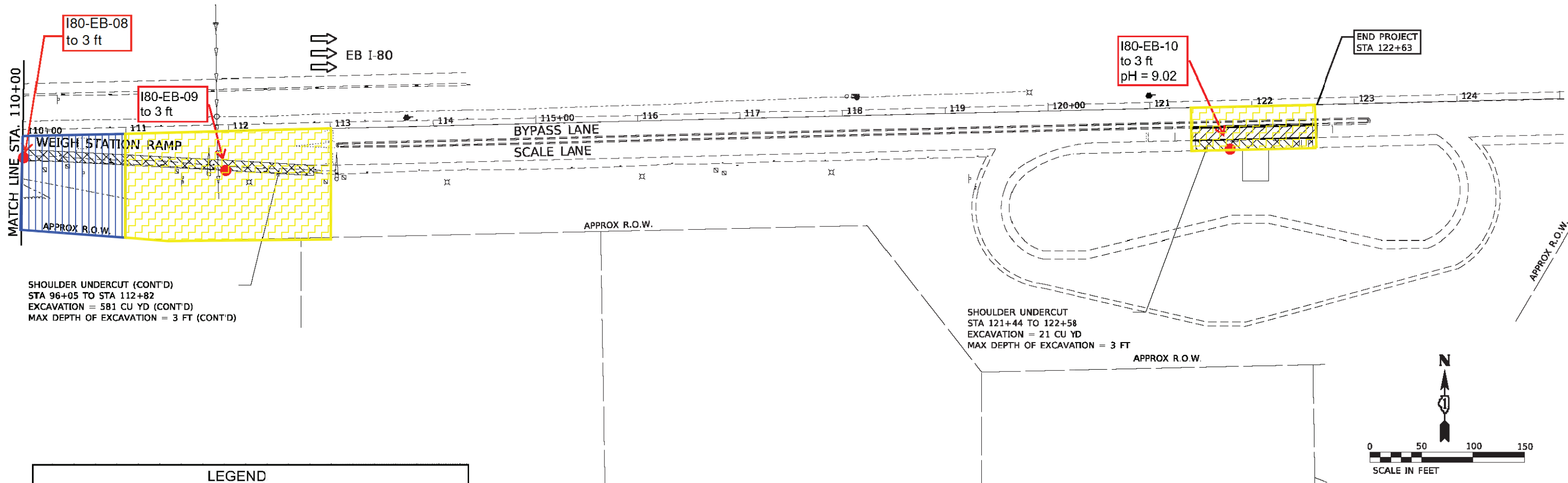
- SOIL BORING LOCATION
- IDENTIFIED SITE WITH EXCAVATION
- APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < BACKGROUND). MATERIAL MAY BE MANAGED ON-SITE OR AS NON-SPECIAL WASTE (a(1)).
- APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < MAC FOR MSA). MATERIAL MAY BE MANAGED ON-SITE OR TO A CCDD/USFO WITHIN A MSA COUNTY (a(2)).
- APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < MAC FOR MSA OR CHICAGO CORPORATE LIMITS). MATERIAL MAY BE MANAGED ON-SITE OR TO A CCDD/USFO WITHIN A MSA COUNTY EXCLUDING CHICAGO OR WITHIN CHICAGO CORPORATE LIMITS (a(3)).
- APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < MAC FOR MSA COUNTY EXCLUDING CHICAGO). MATERIAL MAY BE MANAGED ON-SITE OR TO A CCDD/USFO FACILITY WITHIN A MSA COUNTY EXCLUDING CHICAGO (A(4)).
- APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS. MATERIAL MAY BE MANAGED AS A NON-SPECIAL WASTE (a(5)).
- APPROXIMATE CONSTRUCTION AREA ESTIMATED TO NOT EXCEED MOST STRINGENT MAC VALUE WITH SOIL pH OUTSIDE RANGE 6.25-9.0 TO BE MANAGED ON-SITE OR AS NON-SPECIAL WASTE (b(1)).
- APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED TACO TIER 1 CONSTRUCTION WORKERS REFERENCE CONCENTRATIONS.

AREAS WITHOUT HATCHING ARE CONSIDERED UNRESTRICTED FOR REUSE AND OFF-SITE DISPOSAL.

**Figure 4-1.1 Extent of Potentially Impacted Soil  
Huff & Huff, Inc. 199-014 WO #7A**

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PESA RESPONSE EXHIBIT I-80 EB Weigh Stn.</b>	F.A.U. RTE. 1261	SECTION S30N-3	COUNTY LAKE	TOTAL SHEETS 2	SHEET NO. 1
	PLOT SCALE =	CHECKED -	REVISED -			SCALE: 1" = 100'		SHEET NO. 1 OF 2 SHEETS		STA. TO STA.
	PLOT DATE =	DATE -	REVISED -			ILLINOIS CONTRACT NO.				





SHOULDER UNDERCUT (CONT'D)  
 STA 96+05 TO STA 112+82  
 EXCAVATION = 581 CU YD (CONT'D)  
 MAX DEPTH OF EXCAVATION = 3 FT (CONT'D)

SHOULDER UNDERCUT  
 STA 121+44 TO 122+58  
 EXCAVATION = 21 CU YD  
 MAX DEPTH OF EXCAVATION = 3 FT

LEGEND	
	SOIL BORING LOCATION
	IDENTIFIED SITE WITH EXCAVATION
	APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < BACKGROUND). MATERIAL MAY BE MANAGED ON-SITE OR AS NON-SPECIAL WASTE (a(1)).
	APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < MAC FOR MSA). MATERIAL MAY BE MANAGED ON-SITE OR TO A CDD/USFO WITHIN A MSA COUNTY (a(2)).
	APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < MAC FOR MSA OR CHICAGO CORPORATE LIMITS). MATERIAL MAY BE MANAGED ON-SITE OR TO A CDD/USFO WITHIN A MSA COUNTY EXCLUDING CHICAGO OR WITHIN CHICAGO CORPORATE LIMITS (a(3)).
	APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < MAC FOR MSA COUNTY EXCLUDING CHICAGO). MATERIAL MAY BE MANAGED ON-SITE OR TO A CDD/USFO FACILITY WITHIN A MSA COUNTY EXCLUDING CHICAGO (A(4)).
	APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS. MATERIAL MAY BE MANAGED AS A NON-SPECIAL WASTE (a(5)).
	APPROXIMATE CONSTRUCTION AREA ESTIMATED TO NOT EXCEED MOST STRINGENT MAC VALUE WITH SOIL pH OUTSIDE RANGE 6.25-9.0 TO BE MANAGED ON-SITE OR AS NON-SPECIAL WASTE (b(1)).
	APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED TACO TIER 1 CONSTRUCTION WORKERS REFERENCE CONCENTRATIONS.
AREAS WITHOUT HATCHING ARE CONSIDERED UNRESTRICTED FOR REUSE AND OFF-SITE DISPOSAL.	

Figure 4-1.2 Extent of Potentially Impacted Soil  
 Huff & Huff, Inc. 199-014 WO #7A

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PESA RESPONSE EXHIBIT I-80 EB Weigh Stn.		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
		DRAWN -	REVISED -				1261	S30N-3	LAKE	2	2		
		CHECKED -	REVISED -				CONTRACT NO.						
		DATE -	REVISED -				ILLINOIS						
				SCALE: 1" = 100'	SHEET NO. 2 OF 2 SHEETS	STA.	TO STA.						

FIGURE 4-1.1 (Page 1 of 1)  
 EXTENT OF POTENTIALLY IMPACTED SOIL -EXCEEDANCE TABLE  
 IDOT, District One  
 I-80 at EB Weigh Station  
 Mokena, Will County, Illinois  
 BDE Sequence No.: 24645  
 PTB: 199-014/HH-2, Work Order 7A

Boring ID Sample Depth, ft Sample Date Excavation Area(s) [ISGS Site No.(s)]	Soil Reference Concentrations <sup>a/</sup>	Soil Remediation Objective for Construction Workers <sup>b/</sup>		Soil Remediation Objective for Residential Exposure <sup>c/</sup>		180-EB-02	Dup-01 (180-EB-02 (0-3))	180-EB-06
		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	(0-3)		(0-5)
						6/15/2022	6/15/2022	6/15/2022
Parameter						180-EB	180-EB	180-EB
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.22	8.27	8.14
PID Readings (ppm)						0.0	0.0	0.0
VOCs, mg/kg						NO EXCEEDANCES		
SVOCs, mg/kg						NO EXCEEDANCES		
<b>Total Metals, mg/kg</b>								
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	9.5	9.8	9.5
Barium	1,500	14,000	870,000	5,500	690,000	45.2	26.7	38.5
Beryllium	22	410	44,000	160	1,800	0.5	<0.5	<0.5
Cadmium	5.2	200	59,000	78	1,800	<0.5	<0.5	<0.5
Calcium	---	---	---	---	---	32300	30500	47600
Chromium	21	4100	690	230	270	14.5	11.7	15
Cobalt	20	12000	---	4,700	---	9.2	14.2	12
Copper	2,900	8,200	---	2,900	---	26.9	24.1	33.2
Iron	15,000 / 15,900	---	---	---	---	21200	19800	21200
Lead	107	700	---	400	---	19.3	42.4	18.2
Magnesium	325,000	730,000	---	325,000	---	18400	16100	24500
Manganese	630 / 636	4100	8,700	1,600	---	440	810	468
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	25.3	21.5	30
Potassium	---	---	---	---	---	1650	1260	1900
Selenium	1.3	1000	---	390	---	1	1.1	<1.0
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2
Sodium	---	---	---	---	---	951	766	641
Thallium	2.6	160	---	6.3	---	<1.0	<1.0	<1.0
Vanadium	550	1400	---	550	---	18.7	16.1	18.4
Zinc	5,100	61,000	---	23,000	---	55.7	48.8	59.6
<b>TCLP Metals, mg/L</b>			Class I Groundwater <sup>d/</sup>					
Arsenic			0.05			<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005
Chromium			0.1			<0.005	<0.005	<0.005
Cobalt			1			<0.1	<0.1	<0.1
Copper			0.65			<0.1	<0.1	<0.1
Iron			5			<0.1	<0.1	<0.1
Lead			0.0075			<0.005	<0.005	<0.005
Manganese			0.15			0.7	<0.1	0.9
Mercury			0.002			<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005
Zinc			5			<0.1	<0.1	<0.1
<b>SPLP Metals, mg/L</b>			Class I Groundwater <sup>d/</sup>					
Arsenic			0.05			<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005
Chromium			0.1			<0.005	0.026	0.005
Cobalt			1			<0.1	<0.1	<0.1
Copper			0.65			<0.005	0.031	0.006
Iron			5			1.9	29.4	4.3
Lead			0.0075			<0.005	0.057	<0.005
Manganese			0.15			<0.1	0.3	<0.1
Mercury			0.002			<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005
Zinc			5			<0.1	0.1	<0.1

--- Refers to not applicable or value not available

<sup>a/</sup> 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.

<sup>b/</sup> Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

<sup>c/</sup> Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

<sup>d/</sup> 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:** 81.0220714.10 IDOT 199-014 WO#7  
**Sample ID:** I80-EB-02 (0-3)  
**Sample No:** 22-4392-002

**Date Collected:** 06/15/22  
**Time Collected:** 9:20  
**Date Received:** 06/15/22  
**Date Reported:** 07/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 06/16/22				
Total Solids	92.69		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 06/17/22				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.10 IDOT 199-014 WO#7  
**Sample ID:** I80-EB-02 (0-3)  
**Sample No:** 22-4392-002

**Date Collected:** 06/15/22  
**Time Collected:** 9:20  
**Date Received:** 06/15/22  
**Date Reported:** 07/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 06/17/22				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 06/21/22				
Preparation Date: 06/20/22				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.10 IDOT 199-014 WO#7  
**Sample ID:** I80-EB-02 (0-3)  
**Sample No:** 22-4392-002

**Date Collected:** 06/15/22  
**Time Collected:** 9:20  
**Date Received:** 06/15/22  
**Date Reported:** 07/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>				
Analysis Date: 06/21/22				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.

**Date Collected:** 06/15/22

**Project ID:** 81.0220714.10 IDOT 199-014 WO#7

**Time Collected:** 9:20

**Sample ID:** I80-EB-02 (0-3)

**Date Received:** 06/15/22

**Sample No:** 22-4392-002

**Date Reported:** 07/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>				
<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>		
Analysis Date: 06/21/22		Preparation Date: 06/20/22		
2,4,6-Trichlorophenol	< 330	330	ug/kg	
<b>Total Metals</b>				
<b>Method: 6010C</b>		<b>Preparation Method 3050B</b>		
Analysis Date: 06/22/22		Preparation Date: 06/20/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	9.5	1.0	mg/kg	
Barium	45.2	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	32,300	50	mg/kg	
Chromium	14.5	0.5	mg/kg	
Cobalt	9.2	0.5	mg/kg	
Copper	26.9	0.5	mg/kg	
Iron	21,200	5.0	mg/kg	
Lead	19.3	0.5	mg/kg	
Magnesium	18,400	50	mg/kg	
Manganese	440	0.5	mg/kg	
Nickel	25.3	0.5	mg/kg	
Potassium	1,650	50	mg/kg	
Selenium	1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	951	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	18.7	1.0	mg/kg	
Zinc	55.7	1.0	mg/kg	
<b>Total Mercury</b>				
<b>Method: 7471B</b>				
Analysis Date: 06/21/22				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>				
<b>Method: 9045D</b>				
Analysis Date: 06/21/22 7:50				
pH @ 25°C, 1:2	8.22		Units	
<b>TCLP Extraction</b>				
<b>Method: 1311</b>				
Analysis Date: 06/22/22				
TCLP Extraction	Complete			



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.10 IDOT 199-014 WO#7  
**Sample ID:** I80-EB-02 (0-3)  
**Sample No:** 22-4392-002

**Date Collected:** 06/15/22  
**Time Collected:** 9:20  
**Date Received:** 06/15/22  
**Date Reported:** 07/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Metals Method 1311</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 07/05/22		Preparation Date: 06/29/22		
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	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	< 0.1	0.1	mg/L	
<b>TCLP Mercury Method 1311</b>		<b>Method: 7470A</b>		
Analysis Date: 06/24/22				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction</b>		<b>Method: 1312</b>		
Analysis Date: 06/22/22				
SPLP Metals Extraction		Complete		
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 07/05/22		Preparation Date: 06/29/22		
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	< 0.005	0.005	mg/L	
Iron	1.9	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	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.10 IDOT 199-014 WO#7  
**Sample ID:** I80-EB-02 (0-3)  
**Sample No:** 22-4392-002

**Date Collected:** 06/15/22  
**Time Collected:** 9:20  
**Date Received:** 06/15/22  
**Date Reported:** 07/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		
Analysis Date: 07/05/22		Preparation Method <b>3010A</b>		
		Preparation Date: 06/29/22		
Zinc	< 0.1	0.1	mg/L	
<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>		
Analysis Date: 06/27/22				
Mercury	< 0.0005	0.0005	mg/L	





### Analytical Report

**Client:** HUFF & HUFF INC.

**Date Collected:** 06/15/22

**Project ID:** 81.0220714.10 IDOT 199-014 WO#7

**Time Collected:**

**Sample ID:** DUP-1

**Date Received:** 06/15/22

**Sample No:** 22-4392-012

**Date Reported:** 07/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 06/16/22				
Total Solids	87.00		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 06/17/22				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.

**Date Collected:** 06/15/22

**Project ID:** 81.0220714.10 IDOT 199-014 WO#7

**Time Collected:**

**Sample ID:** DUP-1

**Date Received:** 06/15/22

**Sample No:** 22-4392-012

**Date Reported:** 07/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 06/17/22				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 06/23/22				
Preparation Date: 06/21/22				
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	
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	



## Analytical Report

**Client:** HUFF & HUFF INC.

**Date Collected:** 06/15/22

**Project ID:** 81.0220714.10 IDOT 199-014 WO#7

**Time Collected:**

**Sample ID:** DUP-1

**Date Received:** 06/15/22

**Sample No:** 22-4392-012

**Date Reported:** 07/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>	<b>Method: 8270C</b>	<b>Preparation Method 3540C</b>		
Analysis Date: 06/23/22		Preparation Date: 06/21/22		
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.

**Date Collected:** 06/15/22

**Project ID:** 81.0220714.10 IDOT 199-014 WO#7

**Time Collected:**

**Sample ID:** DUP-1

**Date Received:** 06/15/22

**Sample No:** 22-4392-012

**Date Reported:** 07/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>				
<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>		
Analysis Date: 06/23/22		Preparation Date: 06/21/22		
2,4,6-Trichlorophenol	< 330	330	ug/kg	
<b>Total Metals</b>				
<b>Method: 6010C</b>		<b>Preparation Method 3050B</b>		
Analysis Date: 06/22/22		Preparation Date: 06/20/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	9.8	1.0	mg/kg	
Barium	26.7	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	30,500	50	mg/kg	
Chromium	11.7	0.5	mg/kg	
Cobalt	14.2	0.5	mg/kg	
Copper	24.1	0.5	mg/kg	
Iron	19,800	5.0	mg/kg	
Lead	42.4	0.5	mg/kg	
Magnesium	16,100	50	mg/kg	
Manganese	810	0.5	mg/kg	
Nickel	21.5	0.5	mg/kg	
Potassium	1,260	50	mg/kg	
Selenium	1.1	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	766	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	16.1	1.0	mg/kg	
Zinc	48.8	1.0	mg/kg	
<b>Total Mercury</b>				
<b>Method: 7471B</b>				
Analysis Date: 06/21/22				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>				
<b>Method: 9045D</b>				
Analysis Date: 06/21/22 7:50				
pH @ 25°C, 1:2	8.27		Units	
<b>TCLP Extraction</b>				
<b>Method: 1311</b>				
Analysis Date: 06/23/22				
TCLP Extraction	Complete			



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.10 IDOT 199-014 WO#7  
**Sample ID:** DUP-1  
**Sample No:** 22-4392-012

**Date Collected:** 06/15/22  
**Time Collected:**  
**Date Received:** 06/15/22  
**Date Reported:** 07/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Metals Method 1311</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 07/05/22				Preparation Date: 06/29/22
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	< 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	
<b>TCLP Mercury Method 1311</b>		<b>Method: 7470A</b>		
Analysis Date: 06/29/22				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction</b>		<b>Method: 1312</b>		
Analysis Date: 06/23/22				
SPLP Metals Extraction		Complete		
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 07/01/22				Preparation Date: 06/29/22
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	0.026	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.031	0.005	mg/L	
Iron	29.4	0.1	mg/L	
Lead	0.057	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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.10 IDOT 199-014 WO#7  
**Sample ID:** DUP-1  
**Sample No:** 22-4392-012

**Date Collected:** 06/15/22  
**Time Collected:**  
**Date Received:** 06/15/22  
**Date Reported:** 07/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b> Analysis Date: 07/01/22		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b> Preparation Date: 06/29/22
Zinc	0.1	0.1	mg/L	
<b>SPLP Mercury Method 1312</b> Analysis Date: 06/27/22		<b>Method: 7470A</b>		
Mercury	< 0.0005	0.0005	mg/L	



### Analytical Report

**Client:** HUFF & HUFF INC.

**Date Collected:** 06/15/22

**Project ID:** 81.0220714.10 IDOT 199-014 WO#7

**Time Collected:** 10:10

**Sample ID:** I80-EB-06 (0-5)

**Date Received:** 06/15/22

**Sample No:** 22-4392-007

**Date Reported:** 07/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b>		<b>Method: 2540G 2011</b>		
Analysis Date: 06/16/22				
Total Solids	88.85		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 06/17/22				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.10 IDOT 199-014 WO#7  
**Sample ID:** I80-EB-06 (0-5)  
**Sample No:** 22-4392-007

**Date Collected:** 06/15/22  
**Time Collected:** 10:10  
**Date Received:** 06/15/22  
**Date Reported:** 07/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 06/17/22				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 06/23/22				
Preparation Date: 06/21/22				
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	
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	





## Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.10 IDOT 199-014 WO#7  
**Sample ID:** I80-EB-06 (0-5)  
**Sample No:** 22-4392-007

**Date Collected:** 06/15/22  
**Time Collected:** 10:10  
**Date Received:** 06/15/22  
**Date Reported:** 07/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>				
Analysis Date: 06/23/22				
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	
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	



### Analytical Report

**Client:** HUFF & HUFF INC.

**Date Collected:** 06/15/22

**Project ID:** 81.0220714.10 IDOT 199-014 WO#7

**Time Collected:** 10:10

**Sample ID:** I80-EB-06 (0-5)

**Date Received:** 06/15/22

**Sample No:** 22-4392-007

**Date Reported:** 07/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Semi-Volatile Compounds</b>				
<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>		
Analysis Date: 06/23/22		Preparation Date: 06/21/22		
2,4,6-Trichlorophenol	< 330	330	ug/kg	
<b>Total Metals</b>				
<b>Method: 6010C</b>		<b>Preparation Method 3050B</b>		
Analysis Date: 06/22/22		Preparation Date: 06/20/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	9.5	1.0	mg/kg	
Barium	38.5	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	47,600	50	mg/kg	
Chromium	15.0	0.5	mg/kg	
Cobalt	12.0	0.5	mg/kg	
Copper	33.2	0.5	mg/kg	
Iron	21,200	5.0	mg/kg	
Lead	18.2	0.5	mg/kg	
Magnesium	24,500	50	mg/kg	
Manganese	468	0.5	mg/kg	
Nickel	30.0	0.5	mg/kg	
Potassium	1,900	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	18.4	1.0	mg/kg	
Zinc	59.6	1.0	mg/kg	
<b>Total Mercury</b>				
<b>Method: 7471B</b>				
Analysis Date: 06/21/22				
Mercury	< 0.05	0.05	mg/kg	
<b>pH @ 25°C, 1:2</b>				
<b>Method: 9045D</b>				
Analysis Date: 06/21/22 7:50				
pH @ 25°C, 1:2	8.14		Units	
<b>TCLP Extraction</b>				
<b>Method: 1311</b>				
Analysis Date: 06/22/22				
TCLP Extraction	Complete			



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.10 IDOT 199-014 WO#7  
**Sample ID:** I80-EB-06 (0-5)  
**Sample No:** 22-4392-007

**Date Collected:** 06/15/22  
**Time Collected:** 10:10  
**Date Received:** 06/15/22  
**Date Reported:** 07/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>TCLP Metals Method 1311</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 07/05/22		Preparation Date: 06/29/22		
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	0.9	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	
<b>TCLP Mercury Method 1311</b>		<b>Method: 7470A</b>		
Analysis Date: 06/24/22				
Mercury	< 0.0005	0.0005	mg/L	
<b>SPLP Extraction</b>		<b>Method: 1312</b>		
Analysis Date: 06/22/22				
SPLP Metals Extraction		Complete		
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 07/05/22		Preparation Date: 06/29/22		
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	0.006	0.005	mg/L	
Iron	4.3	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	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.10 IDOT 199-014 WO#7  
**Sample ID:** I80-EB-06 (0-5)  
**Sample No:** 22-4392-007

**Date Collected:** 06/15/22  
**Time Collected:** 10:10  
**Date Received:** 06/15/22  
**Date Reported:** 07/06/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b> Analysis Date: 07/05/22		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b> Preparation Date: 06/29/22
Zinc	< 0.1	0.1	mg/L	
<b>SPLP Mercury Method 1312</b> Analysis Date: 06/27/22		<b>Method: 7470A</b>		
Mercury	< 0.0005	0.0005	mg/L	