

**IDOT, District 1 PTB 199-014 (H&H-2) Work Order 37A**  
**FAP 607 (US 30) Cass Street Bridge, Joliet, Will County, IL**

**APPENDIX D**

**LPC-663 FORMS**



# 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 37A US 30 Cass St Bridge - PSI Office Phone Number, if available: 847-705-4122

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

US 30 at Cass Street Bridge, see attached documentation

City: Joliet State: IL Zip Code: 60435

County: Will Township: \_\_\_\_\_

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

Latitude: 42.52773 Longitude: - 88.0865

(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): \_\_\_\_\_ Approximate End Date (mm/dd/yyyy): \_\_\_\_\_

Estimated Volume of debris (cu. Yd.): \_\_\_\_\_

### II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Dept of Transportation, District 1

Street Address: 201 W. Center Court

PO Box: \_\_\_\_\_

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

Site Operator

Name: Illinois Dept of Transportation, District 1

Street Address: 201 W. Center Court

PO Box: \_\_\_\_\_

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

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

Uncontaminated Soil Certification

**III. Basis for Certification and Attachments**

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

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

Refer to Figure 4-1 in the Final PSI Report and attachment for a list of borings with stationing.

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

Refer to Tables 4-2 and 4-3 in the Final PSI Report for results summary and First Environmental Laboratories, Inc. report numbers #24-2142 and #24-2259. 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:

Apr 23, 2024  
Date:



**LPC-663**  
**Uncontaminated Soil Certification Form**  
**Attachment**

IDOT, District 1 PTB 199-014 Work Order 37A

FAP 607 (US 30) Cass Street Bridge, Joliet, Will County, IL

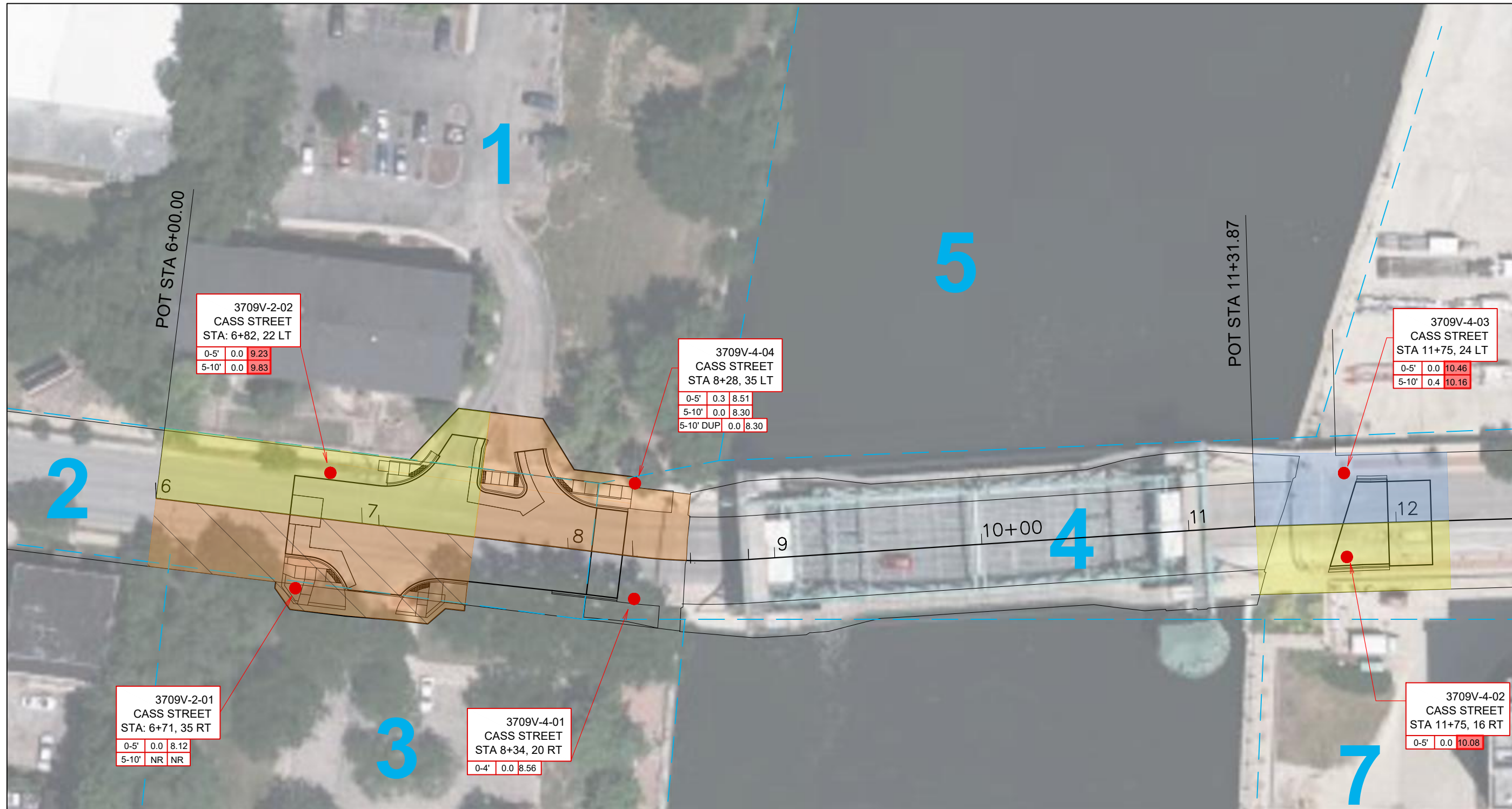
Below is a list referenced in Section I (Source Location Information) of the attached LPC-663 Uncontaminated Soil Certification Form, which requests information about Physical Site Locations (addresses, including number and street):

<b>ISGS Site No.</b>	<b>Name</b>
3709V-2	ROW
3709V-4	Bridge

MSA Counties + Chicago [669.05(a)(2) and (a)(3)]

Below is a list referenced in Section III A (Basis for Certification and Attachments) of the attached LPC-663 Uncontaminated Soil Certification Form, which requests a description of the soil sample points and how they were determined to be sufficient in number and appropriately located:

<b>ISGS Boring No.</b>	<b>Approximate Stationing</b>
3709V-2-01	STA: Rand Rd 224+00, 35 Right
3709V-4-04	STA: Rand Rd 225+00, 35 Right



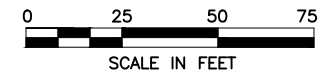
**Legend**

- Soil Boring Location
- PESA Site Boundary
- PID pH PID Exceeds background value or pH outside acceptable range for CCDD disposal
- Depth PID pH
- 669.05(a)(1)
- 669.05(a)(2)

- 669.05(a)(3)
- 669.05(a)(4)
- 669.05(a)(5)
- 669.05(a)(6)
- 669.05(b)(1)
- 669.05(b)(2)
- 669.05(c)
- 669.05(d)
- x x x x Construction Worker Exposure Exceedance

**Notes:**

1. Additional detail and information regarding regulated substances management and disposal classifications can be found in the Standard Specifications for Road and Bridge Construction (SSRBC) Section 669.05.
2. This figure relies on color code depictions for soil management. Please contact the DESU or AE for assistance.



DESIGNED DDH  
 DRAWN DDH  
 CHECKED JJR  
 APPROVED \_\_\_\_\_  
 DATE 4/03/2024



IDOT 199-014 (H&H-2)  
 WO #037A  
 915 HARGER RD  
 SUITE 330  
 OAK BROOK, ILLINOIS  
 60523  
 PH (630) 684-9100

**FIGURE 4-1**  
 Regulated Substances Management Area

Location: US 30 Cass Street Bridge, Joliet, IL

Contract No: 62M79

PESA: 3709v | Route FAP 607

IDOT Job No. D-91-196-17 | BDE Sequence No. 22134

City/County Joliet, Will County

LPC-663 Results (Page 1 of 1)  
 Soils for Reuse or Disposal at CCDD Facilities in MSA Counties including Chicago  
 FAP 607 (US 30)  
 Joliet, Will County, Illinois  
 BDE Sequence No.: 22134  
 PTB: 199-014/HH-2, Work Order No.: 37A

Boring ID	Soil Reference Concentrations <sup>a/</sup>	Soil Remediation Objective for Construction Workers <sup>b/</sup>		Soil Remediation Objective for Residential Exposure <sup>c/</sup>		3709V-2-01	3709V-4-01	3709V-4-04	3709V-4-04	DUP-1 (3709V-4-04)	
						(0-5)	(0-4)	(0-5)	(5-10)	(5-10)	
		Sample Depth, ft	Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	3/18/2024	3/18/2024	3/18/2024	3/18/2024	3/18/2024
		Sample Date					3709V-2	3709V-4			
Excavation Area(s) [ISGS Site No.(s)]											
<b>Parameter</b>											
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.28	8.56	8.51	8.30	8.16	
PID Readings (ppm)						0.0	0.0	0.3	0.0	0.0	
<b>VOCs, mg/kg</b>											
Benzene	0.03	2,300	2.2	12	0.8	<0.005	<0.005	<0.005	<0.005	<0.005	
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<0.005	<0.005	<0.005	
Xylenes, Total	5.6	41,000	5.6	16,000	320	<0.005	<0.005	<0.005	<0.005	<0.005	
<b>SVOCs, mg/kg</b>											
Benzo(a)anthracene	0.9 / 10.9* / 1.8	170	---	1	---	<b>0.362</b>	<0.33	<0.33	<0.33	<0.33	
Benzo(a)pyrene	0.09 / 11.4* / 2.1	17	---	0.09	---	<b>0.379</b>	<0.09	<0.09	<0.09	<0.09	
Benzo(b)fluoranthene	0.9 / 13.1* / 2.1	170	---	0.9	---	<b>0.575</b>	<0.33	<0.33	<0.33	<0.33	
Chrysene	88	17,000	---	88	---	<b>0.417</b>	<0.33	<0.33	<0.33	<0.33	
Fluoranthene	3100	82,000	---	3,100	---	<b>0.785</b>	<0.33	<0.33	<0.33	<0.33	
Phenanthrene	---	---	---	---	---	<b>0.57</b>	<0.33	<0.33	<0.33	<0.33	
Pyrene	2,300	61,000	61,000	2,300	---	<b>0.666</b>	<0.33	<0.33	<0.33	<0.33	
<b>Total Metals, mg/kg</b>											
Arsenic	11.3 / 13	61	25,000	---	750	<b>6.7</b>	<b>7.5</b>	<b>8.4</b>	<b>7.9</b>	<b>7.6</b>	
Barium	1,500	14,000	870,000	5,500	690,000	<b>75.4</b>	<b>54.7</b>	<b>48.7</b>	<b>57</b>	<b>47</b>	
Beryllium	22	410	44,000	160	1,300	<b>0.7</b>	<b>0.6</b>	<b>0.6</b>	<b>0.7</b>	<b>0.6</b>	
Cadmium	5.2	200	59,000	78	1,800	<b>0.7</b>	<0.5	<0.5	<0.5	<0.5	
Calcium	---	---	---	---	---	<b>37000</b>	<b>34400</b>	<b>34700</b>	<b>38600</b>	<b>39100</b>	
Chromium	21	4100	690	230	270	<b>11.9</b>	<b>16.3</b>	<b>17.1</b>	<b>17.3</b>	<b>15.7</b>	
Cobalt	20	12000	---	4,700	---	<b>5.5</b>	<b>8.8</b>	<b>10.7</b>	<b>9.9</b>	<b>10.2</b>	
Copper	2,900	8,200	---	2,900	---	<b>26.7</b>	<b>22.9</b>	<b>24.8</b>	<b>23.6</b>	<b>23.4</b>	
Iron	15,000 / 15,900	---	---	---	---	<b>17900</b>	<b>21400</b>	<b>23000</b>	<b>22000</b>	<b>21100</b>	
Lead	107	700	---	400	---	<b>156</b>	<b>11.4</b>	<b>14.9</b>	<b>41.4</b>	<b>36.7</b>	
Magnesium	325,000	730,000	---	325,000	---	<b>21500</b>	<b>18700</b>	<b>19500</b>	<b>22000</b>	<b>20200</b>	
Manganese	630 / 636	4100	8,700	1,600	---	<b>377</b>	<b>355</b>	<b>462</b>	<b>451</b>	<b>450</b>	
Mercury	0.89	61	0.1	23	10	<b>0.14</b>	<0.05	<0.05	<b>0.05</b>	<0.05	
Nickel	100	4100	440,000	1,600	13,000	<b>13.7</b>	<b>25.7</b>	<b>27.3</b>	<b>25.6</b>	<b>26.2</b>	
Potassium	---	---	---	---	---	<b>1180</b>	<b>1650</b>	<b>1760</b>	<b>1960</b>	<b>1760</b>	
Sodium	---	---	---	---	---	<b>131</b>	<b>242</b>	<b>617</b>	<b>467</b>	<b>457</b>	
Vanadium	550	1400	---	550	---	<b>18.8</b>	<b>21.7</b>	<b>23.6</b>	<b>24</b>	<b>21.5</b>	
Zinc	5,100	61,000	---	23,000	---	<b>118</b>	<b>51.4</b>	<b>55.1</b>	<b>65</b>	<b>64.7</b>	
<b>TCLP Metals, mg/L</b>			Class I Groundwater <sup>d/</sup>								
Iron						<0.1	<0.1	<0.1	<0.1	<0.1	
Manganese						<b>0.26</b>	<b>0.77</b>	<b>0.52</b>	<b>0.54</b>	<b>0.82</b>	
<b>SPLP Metals, mg/L</b>			Class I Groundwater <sup>d/</sup>								
Arsenic						<0.010	<0.010	<b>0.023</b>	<b>0.016</b>	<b>0.012</b>	
Chromium						<b>0.011</b>	<b>0.024</b>	<b>0.062</b>	<b>0.046</b>	<b>0.03</b>	
Copper						<b>0.015</b>	<b>0.026</b>	<b>0.077</b>	<b>0.054</b>	<b>0.035</b>	
Iron						<b>10.3</b>	<b>25.9</b>	<b>71.9</b>	<b>53.2</b>	<b>33.1</b>	
Lead						<b>0.028</b>	<b>0.01</b>	<b>0.026</b>	<b>0.018</b>	<b>0.01</b>	
Manganese						<b>0.11</b>	<b>0.11</b>	<b>0.28</b>	<b>0.22</b>	<b>0.14</b>	
Zinc						<0.1	<0.1	<b>0.2</b>	<b>0.1</b>	<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.

\* Soil Reference Concentration based on IEPA Corrected City of Chicago Polynuclear Aromatic Hydrocarbon Background Concentrations Memorandum, Dated November 2022.

**Bold** indicates concentration detected

 Shaded values indicate concentration exceeds reference concentration





### Analytical Report

**Client:** HUFF & HUFF INC.

**Date Collected:** 03/18/24

**Project ID:** 81.0220714.68, IDOT WO37A US30

**Time Collected:** 10:10

**Sample ID:** 3709V-2-01 (0-5)

**Date Received:** 03/19/24

**Sample No:** 24-2142-001

**Date Reported:** 03/22/24

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: 03/19/24				
Total Solids	80.47		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 03/20/24				
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	



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**Sample No:** 24-2142-001

**Date Collected:** 03/18/24  
**Time Collected:** 10:10  
**Date Received:** 03/19/24  
**Date Reported:** 03/22/24

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: 03/20/24				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 03/20/24				
Preparation Date: 03/19/24				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	362	330	ug/kg	
Benzo(a)pyrene	379	90	ug/kg	
Benzo(b)fluoranthene	575	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	417	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	





## Analytical Report

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**Project ID:** 81.0220714.68, IDOT WO37A US30  
**Sample ID:** 3709V-2-01 (0-5)  
**Sample No:** 24-2142-001

**Date Collected:** 03/18/24  
**Time Collected:** 10:10  
**Date Received:** 03/19/24  
**Date Reported:** 03/22/24

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: 03/20/24		Preparation Date: 03/19/24		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	785	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



### Analytical Report

<b>Client:</b>	HUFF & HUFF INC.	<b>Date Collected:</b>	03/18/24
<b>Project ID:</b>	81.0220714.68, IDOT WO37A US30	<b>Time Collected:</b>	10:10
<b>Sample ID:</b>	3709V-2-01 (0-5)	<b>Date Received:</b>	03/19/24
<b>Sample No:</b>	24-2142-001	<b>Date Reported:</b>	03/22/24

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: 03/20/24		Preparation Date: 03/19/24		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	570	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	666	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
<b>Total Metals</b>		<b>Method: 6010C</b>		<b>Preparation Method 3050B</b>
Analysis Date: 03/20/24		Preparation Date: 03/20/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.7	1.0	mg/kg	
Barium	75.4	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	0.7	0.5	mg/kg	
Calcium	37,000	50	mg/kg	
Chromium	11.9	0.5	mg/kg	
Cobalt	5.5	0.5	mg/kg	
Copper	26.7	0.5	mg/kg	
Iron	17,900	5.0	mg/kg	
Lead	156	0.5	mg/kg	
Magnesium	21,500	50	mg/kg	
Manganese	377	0.5	mg/kg	
Nickel	13.7	0.5	mg/kg	
Potassium	1,180	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	131	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	18.8	1.0	mg/kg	
Zinc	118	1.0	mg/kg	





**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.68, IDOT WO37A US30  
**Sample ID:** 3709V-2-01 (0-5)  
**Sample No:** 24-2142-001

**Date Collected:** 03/18/24  
**Time Collected:** 10:10  
**Date Received:** 03/19/24  
**Date Reported:** 03/22/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 03/21/24		Preparation Date: 03/20/24		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.011	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.015	0.005	mg/L	
Iron	10.3	0.1	mg/L	
Lead	0.028	0.005	mg/L	
Manganese	0.11	0.10	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>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>	
Analysis Date: 03/21/24			
Mercury	< 0.0005	0.0005	mg/L

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	102.8	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	101.2	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	103.6	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	92.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	89	45	112
8270C	2-Fluorophenol (Surr)	%R:	71	41	84
8270C	d14-Terphenyl (Surr)	%R:	98	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	89	35	105
8270C	Phenol-d5 (surr)	%R:	89.5	50	100



### Analytical Report

**Client:** HUFF & HUFF INC.

**Date Collected:** 03/18/24

**Project ID:** 81.0220714.68, IDOT WO37A US30

**Time Collected:** 9:50

**Sample ID:** 3709V-4-04 (0-5)

**Date Received:** 03/19/24

**Sample No:** 24-2142-005

**Date Reported:** 03/22/24

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: 03/19/24				
Total Solids	83.71		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 03/20/24				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.68, IDOT WO37A US30  
**Sample ID:** 3709V-4-04 (0-5)  
**Sample No:** 24-2142-005

**Date Collected:** 03/18/24  
**Time Collected:** 9:50  
**Date Received:** 03/19/24  
**Date Reported:** 03/22/24

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: 03/20/24				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 03/20/24				
Preparation Date: 03/19/24				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	





## Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.68, IDOT WO37A US30  
**Sample ID:** 3709V-4-04 (0-5)  
**Sample No:** 24-2142-005

**Date Collected:** 03/18/24  
**Time Collected:** 9:50  
**Date Received:** 03/19/24  
**Date Reported:** 03/22/24

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: 03/20/24		Preparation Date: 03/19/24		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.68, IDOT WO37A US30  
**Sample ID:** 3709V-4-04 (0-5)  
**Sample No:** 24-2142-005

**Date Collected:** 03/18/24  
**Time Collected:** 9:50  
**Date Received:** 03/19/24  
**Date Reported:** 03/22/24

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: 03/20/24		Preparation Date: 03/19/24		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
<b>Total Metals</b>		<b>Method: 6010C</b>		<b>Preparation Method 3050B</b>
Analysis Date: 03/20/24		Preparation Date: 03/20/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	8.4	1.0	mg/kg	
Barium	48.7	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	34,700	50	mg/kg	
Chromium	17.1	0.5	mg/kg	
Cobalt	10.7	0.5	mg/kg	
Copper	24.8	0.5	mg/kg	
Iron	23,000	5.0	mg/kg	
Lead	14.9	0.5	mg/kg	
Magnesium	19,500	50	mg/kg	
Manganese	462	0.5	mg/kg	
Nickel	27.3	0.5	mg/kg	
Potassium	1,760	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	617	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	23.6	1.0	mg/kg	
Zinc	55.1	1.0	mg/kg	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.68, IDOT WO37A US30  
**Sample ID:** 3709V-4-04 (0-5)  
**Sample No:** 24-2142-005

**Date Collected:** 03/18/24  
**Time Collected:** 9:50  
**Date Received:** 03/19/24  
**Date Reported:** 03/22/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 03/21/24		Preparation Date: 03/20/24		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.062	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.077	0.005	mg/L	
Iron	71.9	0.1	mg/L	
Lead	0.026	0.005	mg/L	
Manganese	0.28	0.10	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.2	0.1	mg/L	

<b>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>	
Analysis Date: 03/21/24			
Mercury	< 0.0005	0.0005	mg/L

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
Method	Analyte	QC Result	Low	High	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 102	86	117	
5035A/8260B	d8-Toluene (Surr)	%R: 101.4	90	110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 102.3	77	120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 95	59	131	
8270C	2-Fluorobiphenyl (Surr)	%R: 87	45	112	
8270C	2-Fluorophenol (Surr)	%R: 73	41	84	
8270C	d14-Terphenyl (Surr)	%R: 117	56	120	
8270C	d5-Nitrobenzene (Surr)	%R: 86	35	105	
8270C	Phenol-d5 (surr)	%R: 88	50	100	



## Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.68, IDOT WO37A US30  
**Sample ID:** 3709V-4-04 (5-10)  
**Sample No:** 24-2142-006

**Date Collected:** 03/18/24  
**Time Collected:** 9:55  
**Date Received:** 03/19/24  
**Date Reported:** 03/22/24

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: 03/19/24				
Total Solids	83.33		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 03/20/24				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.68, IDOT WO37A US30  
**Sample ID:** 3709V-4-04 (5-10)  
**Sample No:** 24-2142-006

**Date Collected:** 03/18/24  
**Time Collected:** 9:55  
**Date Received:** 03/19/24  
**Date Reported:** 03/22/24

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: 03/20/24				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 03/20/24				
Preparation Date: 03/19/24				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	





## Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.68, IDOT WO37A US30  
**Sample ID:** 3709V-4-04 (5-10)  
**Sample No:** 24-2142-006

**Date Collected:** 03/18/24  
**Time Collected:** 9:55  
**Date Received:** 03/19/24  
**Date Reported:** 03/22/24

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: 03/20/24		Preparation Date: 03/19/24		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



## Analytical Report

**Client:** HUFF & HUFF INC.

**Date Collected:** 03/18/24

**Project ID:** 81.0220714.68, IDOT WO37A US30

**Time Collected:** 9:55

**Sample ID:** 3709V-4-04 (5-10)

**Date Received:** 03/19/24

**Sample No:** 24-2142-006

**Date Reported:** 03/22/24

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: 03/20/24		Preparation Date: 03/19/24		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
<b>Total Metals</b>		<b>Method: 6010C</b>		<b>Preparation Method 3050B</b>
Analysis Date: 03/20/24		Preparation Date: 03/20/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.9	1.0	mg/kg	
Barium	57.0	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	38,600	50	mg/kg	
Chromium	17.3	0.5	mg/kg	
Cobalt	9.9	0.5	mg/kg	
Copper	23.6	0.5	mg/kg	
Iron	22,000	5.0	mg/kg	
Lead	41.4	0.5	mg/kg	
Magnesium	22,000	50	mg/kg	
Manganese	451	0.5	mg/kg	
Nickel	25.6	0.5	mg/kg	
Potassium	1,960	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	467	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	24.0	1.0	mg/kg	
Zinc	65.0	1.0	mg/kg	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.68, IDOT WO37A US30  
**Sample ID:** 3709V-4-04 (5-10)  
**Sample No:** 24-2142-006

**Date Collected:** 03/18/24  
**Time Collected:** 9:55  
**Date Received:** 03/19/24  
**Date Reported:** 03/22/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 03/21/24		Preparation Date: 03/20/24		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.046	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.054	0.005	mg/L	
Iron	53.2	0.1	mg/L	
Lead	0.018	0.005	mg/L	
Manganese	0.22	0.10	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>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>	
Analysis Date: 03/21/24			
Mercury	< 0.0005	0.0005	mg/L

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	102	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	100.6	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	104.2	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	91	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	83	45	112
8270C	2-Fluorophenol (Surr)	%R:	74	41	84
8270C	d14-Terphenyl (Surr)	%R:	112	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	85	35	105
8270C	Phenol-d5 (surr)	%R:	88	50	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.68, IDOT WO37A US30  
**Sample ID:** DUP - 01  
**Sample No:** 24-2142-007

**Date Collected:** 03/18/24  
**Time Collected:** 9:01  
**Date Received:** 03/19/24  
**Date Reported:** 03/22/24

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: 03/19/24				
Total Solids	83.82		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 03/20/24				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.68, IDOT WO37A US30  
**Sample ID:** DUP - 01  
**Sample No:** 24-2142-007

**Date Collected:** 03/18/24  
**Time Collected:** 9:01  
**Date Received:** 03/19/24  
**Date Reported:** 03/22/24

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: 03/20/24				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 03/20/24				
Preparation Date: 03/19/24				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	





## Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.68, IDOT WO37A US30  
**Sample ID:** DUP - 01  
**Sample No:** 24-2142-007

**Date Collected:** 03/18/24  
**Time Collected:** 9:01  
**Date Received:** 03/19/24  
**Date Reported:** 03/22/24

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: 03/20/24		Preparation Date: 03/19/24		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



## Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.68, IDOT WO37A US30  
**Sample ID:** DUP - 01  
**Sample No:** 24-2142-007

**Date Collected:** 03/18/24  
**Time Collected:** 9:01  
**Date Received:** 03/19/24  
**Date Reported:** 03/22/24

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: 03/20/24		Preparation Date: 03/19/24		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
<b>Total Metals</b>		<b>Method: 6010C</b>		<b>Preparation Method 3050B</b>
Analysis Date: 03/20/24		Preparation Date: 03/20/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.6	1.0	mg/kg	
Barium	47.0	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	39,100	50	mg/kg	
Chromium	15.7	0.5	mg/kg	
Cobalt	10.2	0.5	mg/kg	
Copper	23.4	0.5	mg/kg	
Iron	21,100	5.0	mg/kg	
Lead	36.7	0.5	mg/kg	
Magnesium	20,200	50	mg/kg	
Manganese	450	0.5	mg/kg	
Nickel	26.2	0.5	mg/kg	
Potassium	1,760	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	457	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	21.5	1.0	mg/kg	
Zinc	64.7	1.0	mg/kg	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.68, IDOT WO37A US30  
**Sample ID:** DUP - 01  
**Sample No:** 24-2142-007

**Date Collected:** 03/18/24  
**Time Collected:** 9:01  
**Date Received:** 03/19/24  
**Date Reported:** 03/22/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 03/21/24		Preparation Date: 03/20/24		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.030	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.035	0.005	mg/L	
Iron	33.1	0.1	mg/L	
Lead	0.010	0.005	mg/L	
Manganese	0.14	0.10	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>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>	
Analysis Date: 03/21/24			
Mercury	< 0.0005	0.0005	mg/L

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	103.4	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	100.9	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	103.9	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	96.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	85	45	112
8270C	2-Fluorophenol (Surr)	%R:	69	41	84
8270C	d14-Terphenyl (Surr)	%R:	117	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	81	35	105
8270C	Phenol-d5 (surr)	%R:	84.5	50	100



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.68, IDOT WO37A US30  
**Sample ID:** Trip Blank  
**Sample No:** 24-2142-008

**Date Collected:**  
**Time Collected:**  
**Date Received:** 03/19/24  
**Date Reported:** 03/22/24

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5030B/8260B</b>		
Analysis Date: 03/20/24				
Acetone	< 100	100	ug/L	
Benzene	< 5.0	5.0	ug/L	
Bromodichloromethane	< 1.0	1.0	ug/L	
Bromoform	< 1.0	1.0	ug/L	
Bromomethane	< 5.0	5.0	ug/L	
2-Butanone (MEK)	< 10.0	10.0	ug/L	
Carbon disulfide	< 5.0	5.0	ug/L	
Carbon tetrachloride	< 5.0	5.0	ug/L	
Chlorobenzene	< 5.0	5.0	ug/L	
Chlorodibromomethane	< 1.0	1.0	ug/L	
Chloroethane	< 10.0	10.0	ug/L	
Chloroform	< 1.0	1.0	ug/L	
Chloromethane	< 10.0	10.0	ug/L	
1,1-Dichloroethane	< 5.0	5.0	ug/L	
1,2-Dichloroethane	< 5.0	5.0	ug/L	
1,1-Dichloroethene	< 5.0	5.0	ug/L	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/L	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/L	
1,2-Dichloropropane	< 5.0	5.0	ug/L	
cis-1,3-Dichloropropene	< 1.0	1.0	ug/L	
trans-1,3-Dichloropropene	< 1.0	1.0	ug/L	
Ethylbenzene	< 5.0	5.0	ug/L	
2-Hexanone	< 10.0	10.0	ug/L	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/L	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/L	
Methylene chloride	< 5.0	5.0	ug/L	
Styrene	< 5.0	5.0	ug/L	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/L	
Tetrachloroethene	< 5.0	5.0	ug/L	
Toluene	< 5.0	5.0	ug/L	
1,1,1-Trichloroethane	< 5.0	5.0	ug/L	
1,1,2-Trichloroethane	< 5.0	5.0	ug/L	
Trichloroethene	< 5.0	5.0	ug/L	
Vinyl acetate	< 10.0	10.0	ug/L	



**Analytical Report**

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.68, IDOT WO37A US30  
**Sample ID:** Trip Blank  
**Sample No:** 24-2142-008

**Date Collected:**  
**Time Collected:**  
**Date Received:** 03/19/24  
**Date Reported:** 03/22/24

Analyte	Result	R.L.	Units	Flags
<b>Volatile Organic Compounds</b>		<b>Method: 5030B/8260B</b>		
Analysis Date: 03/20/24				
Vinyl chloride	< 2.0	2.0	ug/L	
Xylene, Total	< 5.0	5.0	ug/L	

**Sample QC Summary: Surrogate Recovery**

Method	Analyte	QC Result	%R Limits	
			Low	High
5030B/8260B	4-Bromofluorobenzene (Surr)	%R: 98	70	124
5030B/8260B	d8-Toluene (Surr)	%R: 98.6	90	112
5030B/8260B	Dibromofluoromethane (Surr)	%R: 95.6	85	118







# 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 37A US 30 Cass St Bridge - PSI Office Phone Number, if available: 847-705-4122

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

US 30 at Cass Street Bridge, see attached documentation

City: Joliet State: IL Zip Code: 60435

County: Will Township: \_\_\_\_\_

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

Latitude: 42.52773 Longitude: - 88.0865

(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): \_\_\_\_\_ Approximate End Date (mm/dd/yyyy): \_\_\_\_\_

Estimated Volume of debris (cu. Yd.): \_\_\_\_\_

### II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Dept of Transportation, District 1

Street Address: 201 W. Center Court

PO Box: \_\_\_\_\_

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

Site Operator

Name: Illinois Dept of Transportation, District 1

Street Address: 201 W. Center Court

PO Box: \_\_\_\_\_

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

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

Uncontaminated Soil Certification

**III. Basis for Certification and Attachments**

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

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

Refer to Figure 4-1 in the Final PSI Report and attachment for a list of borings with stationing.

- 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 #24-2142 and #24-2259. 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:

Apr 23, 2024  
Date:  
  
P.E or L.P.C. Seal:

**LPC-663**  
**Uncontaminated Soil Certification Form**  
**Attachment**

IDOT, District 1 PTB 199-014 Work Order 37A

FAP 607 (US 30) Cass Street Bridge, Joliet, Will County, IL

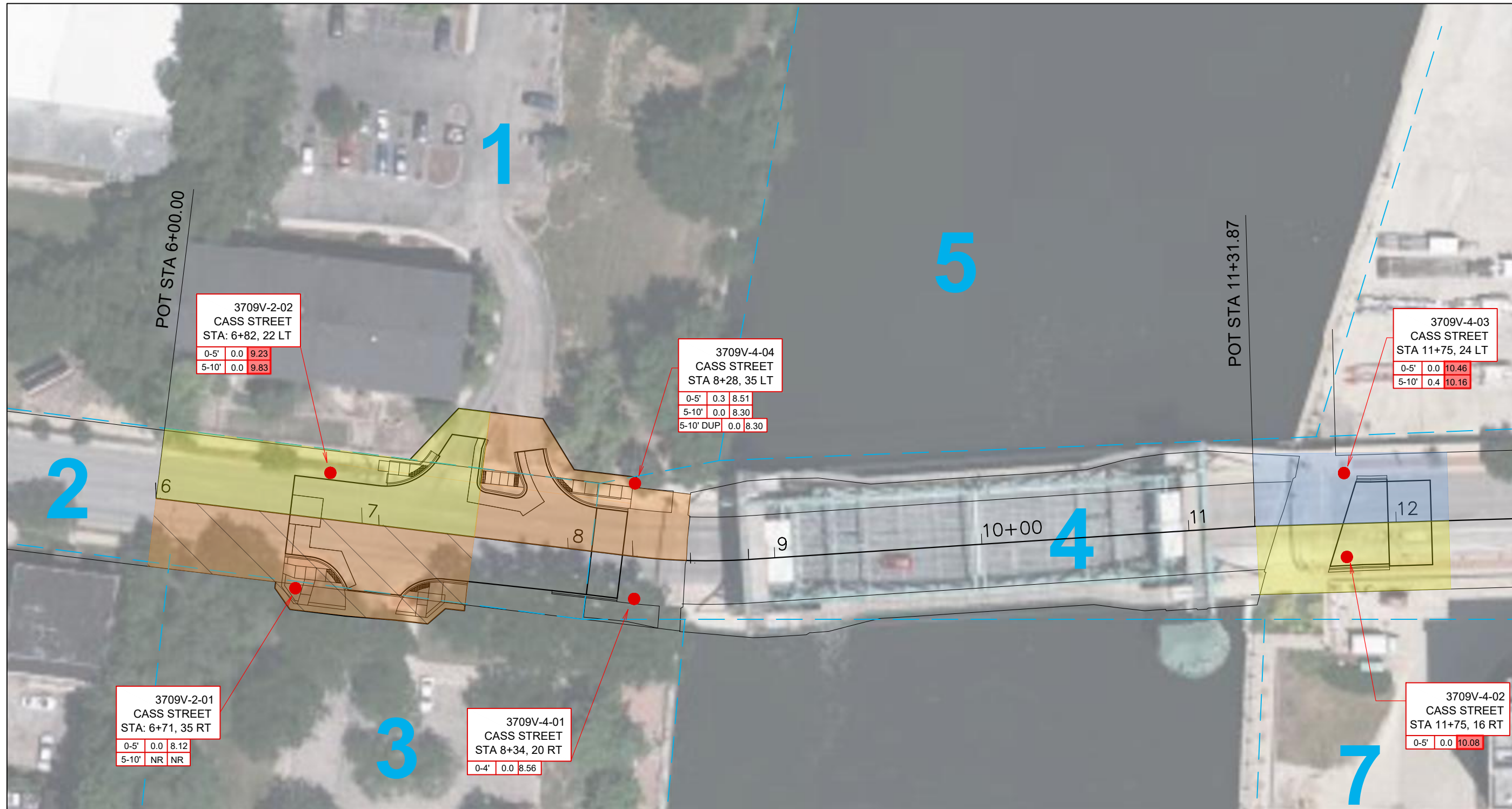
Below is a list referenced in Section I (Source Location Information) of the attached LPC-663 Uncontaminated Soil Certification Form, which requests information about Physical Site Locations (addresses, including number and street):

<b>ISGS Site No.</b>	<b>Name</b>
3709V-2	ROW
3709V-4	Bridge

Unrestricted

Below is a list referenced in Section III A (Basis for Certification and Attachments) of the attached LPC-663 Uncontaminated Soil Certification Form, which requests a description of the soil sample points and how they were determined to be sufficient in number and appropriately located:

<b>ISGS Boring No.</b>	<b>Approximate Stationing</b>
3709V-4-01	STA: Cass St 08+34, 20 Right



3709V-2-02  
CASS STREET  
STA: 6+82, 22 LT

0-5'	0.0	9.23
5-10'	0.0	9.83

3709V-4-04  
CASS STREET  
STA 8+28, 35 LT

0-5'	0.3	8.51
5-10'	0.0	8.30
5-10' DUP	0.0	8.30

3709V-4-03  
CASS STREET  
STA 11+75, 24 LT

0-5'	0.0	10.46
5-10'	0.4	10.16

3709V-2-01  
CASS STREET  
STA: 6+71, 35 RT

0-5'	0.0	8.12
5-10'	NR	NR

3709V-4-01  
CASS STREET  
STA 8+34, 20 RT

0-4'	0.0	8.56
------	-----	------

3709V-4-02  
CASS STREET  
STA 11+75, 16 RT

0-5'	0.0	10.08
------	-----	-------

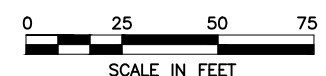
**Legend**

- Soil Boring Location
- PESA Site Boundary
- PID pH PID Exceeds background value or pH outside acceptable range for CCDD disposal
- Depth PID pH
- 669.05(a)(1)
- 669.05(a)(2)

- 669.05(a)(3)
- 669.05(a)(4)
- 669.05(a)(5)
- 669.05(a)(6)
- 669.05(b)(1)
- 669.05(b)(2)
- 669.05(c)
- 669.05(d)
- x x x x Construction Worker Exposure Exceedance

**Notes:**

1. Additional detail and information regarding regulated substances management and disposal classifications can be found in the Standard Specifications for Road and Bridge Construction (SSRBC) Section 669.05.
2. This figure relies on color code depictions for soil management. Please contact the DESU or AE for assistance.



DESIGNED	DDH
DRAWN	DDH
CHECKED	JJR
APPROVED	
DATE	4/03/2024



IDOT 199-014 (H&H-2)  
WO #037A  
  
915 HARGER RD  
SUITE 330  
OAK BROOK, ILLINOIS  
60523  
PH (630) 684-9100

FIGURE 4-1 Regulated Substances Management Area	
Location: US 30 Cass Street Bridge, Joliet, IL	
Contract No: 62M79	
PESA: 3709v	Route FAP 607
IDOT Job No. D-91-196-17	BDE Sequence No. 22134
City/County Joliet, Will County	

LPC-663 Results (Page 1 of 1)  
 Unrestricted Soils for Reuse or Disposal  
 FAP 607 (US 30)  
 Joliet, Will County, Illinois  
 BDE Sequence No.: 22134  
 PTB: 199-014/HH-2, Work Order No.: 37A

Boring ID	Soil Reference Concentrations <sup>a/</sup>	Soil Remediation Objective for Construction Workers <sup>b/</sup>		Soil Remediation Objective for Residential Exposure <sup>c/</sup>		3709V-4-01
		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	(0-4)
Sample Depth, ft						3/18/2024
Sample Date						
Excavation Area(s) [ISGS Site No.(s)]						3709V-4
Parameter						
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.56
PID Readings (ppm)						0.0
<b>VOCs, mg/kg</b>						
<b>SVOCs, mg/kg</b>						
<b>Total Metals, mg/kg</b>						
Arsenic	11.3 / 13	61	25,000	---	750	<b>7.5</b>
Barium	1,500	14,000	870,000	5,500	690,000	<b>54.7</b>
Beryllium	22	410	44,000	160	1,300	<b>0.6</b>
Calcium	---	---	---	---	---	<b>34400</b>
Chromium	21	4100	690	230	270	<b>16.3</b>
Cobalt	20	12000	---	4,700	---	<b>8.8</b>
Copper	2,900	8,200	---	2,900	---	<b>22.9</b>
Iron	15,000 / 15,900	---	---	---	---	<b>21400</b>
Lead	107	700	---	400	---	<b>11.4</b>
Magnesium	325,000	730,000	---	325,000	---	<b>18700</b>
Manganese	630 / 636	4100	8,700	1,600	---	<b>355</b>
Nickel	100	4100	440,000	1,600	13,000	<b>25.7</b>
Potassium	---	---	---	---	---	<b>1650</b>
Sodium	---	---	---	---	---	<b>242</b>
Vanadium	550	1400	---	550	---	<b>21.7</b>
Zinc	5,100	61,000	---	23,000	---	<b>51.4</b>
<b>TCLP Metals, mg/L</b>			Class I Groundwater <sup>d/</sup>			
Manganese				0.15		<b>0.77</b>
<b>SPLP Metals, mg/L</b>			Class I Groundwater <sup>d/</sup>			
Chromium				0.1		<b>0.024</b>
Copper				0.65		<b>0.026</b>
Iron				5		<b>25.9</b>
Lead				0.0075		<b>0.01</b>
Manganese				0.15		<b>0.11</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.

\* Soil Reference Concentration based on IEPA Corrected City of Chicago Polynuclear Aromatic Hydrocarbon Background Concentrations Memorandum, Dated November 2022.

**Bold** indicates concentration detected

 Shaded values indicate concentration exceeds reference concentration





### Analytical Report

<b>Client:</b>	HUFF & HUFF INC.	<b>Date Collected:</b>	03/18/24
<b>Project ID:</b>	81.0220714.68, IDOT WO37A US30	<b>Time Collected:</b>	10:00
<b>Sample ID:</b>	3709V-4-01 (0-4)	<b>Date Received:</b>	03/19/24
<b>Sample No:</b>	24-2142-004	<b>Date Reported:</b>	03/22/24

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: 03/19/24				
Total Solids	83.47		%	
<b>Volatile Organic Compounds</b>		<b>Method: 5035A/8260B</b>		
Analysis Date: 03/20/24				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.68, IDOT WO37A US30  
**Sample ID:** 3709V-4-01 (0-4)  
**Sample No:** 24-2142-004

**Date Collected:** 03/18/24  
**Time Collected:** 10:00  
**Date Received:** 03/19/24  
**Date Reported:** 03/22/24

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: 03/20/24				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
<b>Semi-Volatile Compounds</b>		<b>Method: 8270C</b>		<b>Preparation Method 3540C</b>
Analysis Date: 03/20/24				
Preparation Date: 03/19/24				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	





## Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.68, IDOT WO37A US30  
**Sample ID:** 3709V-4-01 (0-4)  
**Sample No:** 24-2142-004

**Date Collected:** 03/18/24  
**Time Collected:** 10:00  
**Date Received:** 03/19/24  
**Date Reported:** 03/22/24

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: 03/20/24		Preparation Date: 03/19/24		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



## Analytical Report

<b>Client:</b>	HUFF & HUFF INC.	<b>Date Collected:</b>	03/18/24
<b>Project ID:</b>	81.0220714.68, IDOT WO37A US30	<b>Time Collected:</b>	10:00
<b>Sample ID:</b>	3709V-4-01 (0-4)	<b>Date Received:</b>	03/19/24
<b>Sample No:</b>	24-2142-004	<b>Date Reported:</b>	03/22/24

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: 03/20/24		Preparation Date: 03/19/24		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
<b>Total Metals</b>		<b>Method: 6010C</b>		<b>Preparation Method 3050B</b>
Analysis Date: 03/20/24		Preparation Date: 03/20/24		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.5	1.0	mg/kg	
Barium	54.7	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	34,400	50	mg/kg	
Chromium	16.3	0.5	mg/kg	
Cobalt	8.8	0.5	mg/kg	
Copper	22.9	0.5	mg/kg	
Iron	21,400	5.0	mg/kg	
Lead	11.4	0.5	mg/kg	
Magnesium	18,700	50	mg/kg	
Manganese	355	0.5	mg/kg	
Nickel	25.7	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	242	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	21.7	1.0	mg/kg	
Zinc	51.4	1.0	mg/kg	





### Analytical Report

**Client:** HUFF & HUFF INC.  
**Project ID:** 81.0220714.68, IDOT WO37A US30  
**Sample ID:** 3709V-4-01 (0-4)  
**Sample No:** 24-2142-004

**Date Collected:** 03/18/24  
**Time Collected:** 10:00  
**Date Received:** 03/19/24  
**Date Reported:** 03/22/24

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010C</b>		<b>Preparation Method 3010A</b>
Analysis Date: 03/21/24		Preparation Date: 03/20/24		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.024	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.026	0.005	mg/L	
Iron	25.9	0.1	mg/L	
Lead	0.010	0.005	mg/L	
Manganese	0.11	0.10	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>SPLP Mercury Method 1312</b>		<b>Method: 7470A</b>	
Analysis Date: 03/21/24			
Mercury	< 0.0005	0.0005	mg/L

<b>Sample QC Summary:</b>		<b>Surrogate Recovery</b>		<b>%R Limits</b>	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	101.5	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	100.5	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	102.4	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	92	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	87	45	112
8270C	2-Fluorophenol (Surr)	%R:	76.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	112	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	87	35	105
8270C	Phenol-d5 (surr)	%R:	89	50	100