

IDOT 178-008 WO #047 (H&H)
PSI Report
Sealed LPC-663 Forms

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 178008-047A IL-83 (127th St) at Cal Sag Road Office Phone Number, if available: 847-705-4122

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

3502V-5 (5300 block W. 127th), 3502V-12 (5300 block W. 127th), 3502V-15 (12660 S. Laramie), 3502V-16 (500 block W. 127th)

City: Alsip/Crestwood State: IL Zip Code: 60803

County: Cook Township: Worth, Bremen

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

Latitude: 41.66153 Longitude: - 87.75015

(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.): 217

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 in the Final PSI Report and borings 3502V-5-01 (IL RT 183 1276+00, 30 Left), 3502V-12-01 (IL RT 183 1275 +25, 30 Right), 3502V-12-02 (IL RT 183 1276+85, 30 Right), 3502V-15-02 (IL RT 183 1282+50, 20 Left), 3502V-16-01 (IL RT 183 1283+00, 30 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 report #21-2847. A site-specific table of results is attached to this form.

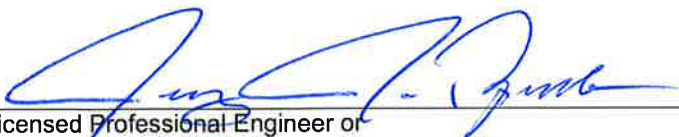
IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

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 14, 2021
Date:



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

LPC-663 Results
 Soils for Reuse Disposal at CCDD Facilities in an MSA County Including Chicago
 IDOT, District One
 Illinois Route 83 (127th Street) @ Cal Sag Road
 Crestwood and Alsip, Cook County, Illinois
 BDE Sequence No.: 21126
 PTB: 178-008 / H&H-1, Work Order No.: 047A

Boring ID Sample Depth, ft Sample Date Excavation Area(s) [ISGS Site No.(s)]	Soil Reference Concentrations ^{a/}	Soil Remediation Objective for Construction Workers ^{b/}	Soil Remediation Objective for Residential Exposure ^{c/}	3502V-5-01	3502V-12-01	3502V-12-02	DUP-01 (3502V-12-02)	3502V-15-02	3502V-15-02	3502V-16-01
				(0-2)	(0-2)	(0-2)	(0-2)	(0-5)	(5-10)	(0-2)
				05/12/2021	05/12/2021	05/12/2021	05/12/2021	05/12/2021	05/12/2021	05/12/2021
				3502V-5	3502V-12		3502V-15		3502V-16	
Parameter										
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	8.91	7.37	7.54	8.22	8.23	8.98	7.59
VOCs, mg/kg				NO EXCEEDANCES						
SVOCs, mg/kg				NO EXCEEDANCES						
Benzo(a)pyrene	0.09 / 1.3 / 2.1	17	0.09	0.198	0.12	0.143	0.214	<0.09	<0.09	0.274
Total Metals, mg/kg										
Chromium	21	690	230	14.5	15.7	12.4	11.8	10.2	7.1	13.7
Iron	15,000 / 15,900	---	---	16800	19000	15600	15200	16300	14700	14400
Lead	107	700	400	46.6	76.6	65.8	64.7	12.4	8.4	34.3
Manganese	630 / 636	4,100	1600	385	453	375	361	495	439	349
TCLP Metals, mg/L	Class I Groundwater ^{d/}									
Chromium		0.1		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Iron		5		<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1
Lead		0.0075		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese		0.15		1.2	0.4	1.3	1.6	1.6	1.2	0.1
SPLP Metals, mg/L	Class I Groundwater ^{d/}									
Chromium		0.1		0.044	0.02	0.014	0.017	<0.005	0.027	0.038
Iron		5		37.6	22.8	16.7	23.6	<0.1	26.4	29.6
Lead		0.0075		0.062	0.032	0.038	0.055	<0.005	0.019	0.102
Manganese		0.15		0.3	0.2	<0.1	0.1	<0.1	0.2	0.2

--- - Refers to not applicable or value not available

^{a/} Soil reference concentrations from MAC table. Background values for MSA counties are included as applicable.

Organic Soil Reference Concentrations (XX.XX / XX.XX / XX.XX) Include the Most Stringent Values from the MAC Table / The Chicago Corporate Limit / and The MSA County Excluding Chicago Values From the MAC Table.

^{b/} Soil Remediation Objective for Construction Workers, most stringent of the Ingestion or Inhalation exposure route.

^{c/} Soil Remediation Objective for Residential exposure, most stringent of the Ingestion or Inhalation exposure route.

^{d/} Soil Remediation Objective for the Groundwater Component of the Groundwater Ingestion Route, Class I Groundwater.

Bold indicates concentration detected

Shaded values indicate concentration exceeds reference concentration

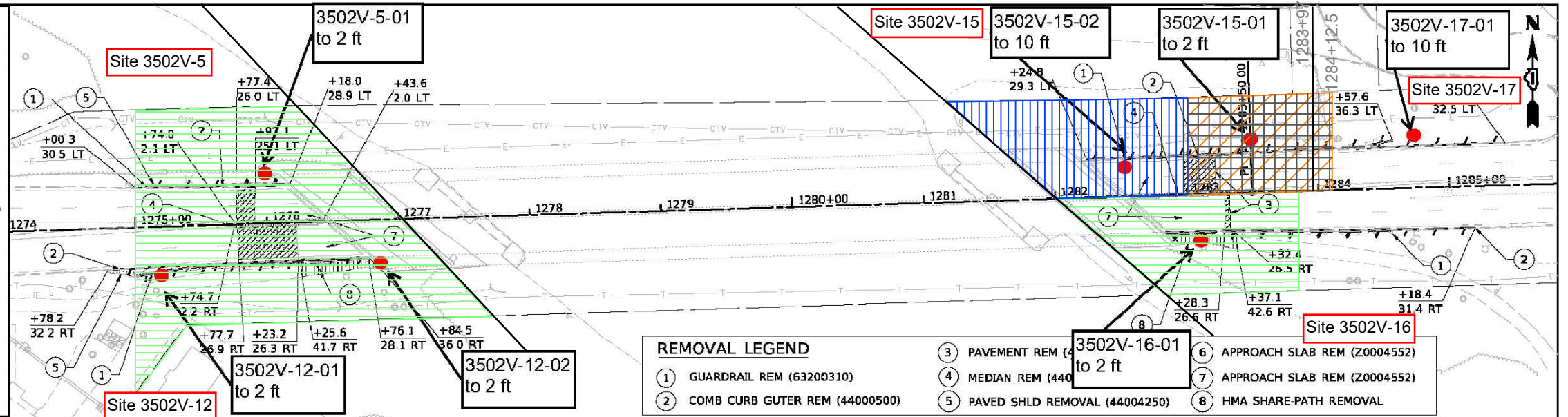
DATE: _____
 BY: _____
 SURVEYED: _____
 PLOTTED: _____
 CHECKED: _____
 NO. OF WAY CHECKED: _____
 NO. OF WAY CHECKED: _____
 NO. OF WAY CHECKED: _____

DATE: _____
 BY: _____
 SURVEYED: _____
 PLOTTED: _____
 CHECKED: _____
 NO. OF WAY CHECKED: _____
 NO. OF WAY CHECKED: _____
 NO. OF WAY CHECKED: _____

DESIGNED: _____
 DRAWN: _____
 CHECKED: _____
 NO. OF WAY CHECKED: _____
 NO. OF WAY CHECKED: _____
 NO. OF WAY CHECKED: _____

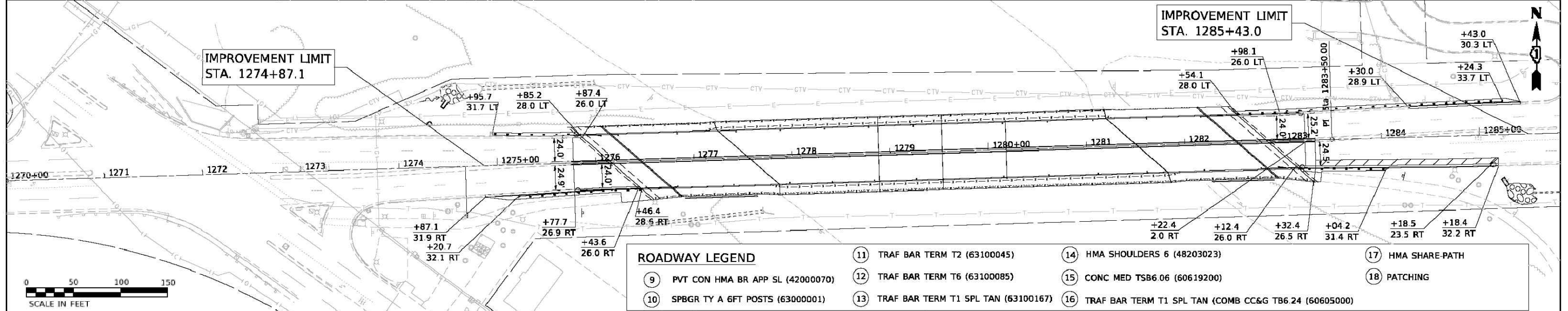
LEGEND

- SOIL BORING LOCATION
- IDENTIFIED SITE
- 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 OFF-SITE AS UNCONTAMINATED SOIL. CANNOT BE TAKEN TO A CCDDIUSFO (b(1)).
- APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED TACO TIER 1 CONSTRUCTION WORKERS REFERENCE CONCENTRATIONS.
- AREAS WITHOUT SHADING ARE CONSIDERED UNRESTRICTED FOR REUSE AND OFF-SITE DISPOSAL.



REMOVAL LEGEND

- 1 GUARDRAIL REM (63200310)
- 2 COMB CURB GUTER REM (44000500)
- 3 PAVEMENT REM (44000500)
- 4 MEDIAN REM (44000500)
- 5 PAVED SHLD REMOVAL (44004250)
- 6 APPROACH SLAB REM (Z0004552)
- 7 APPROACH SLAB REM (Z0004552)
- 8 HMA SHARE-PATH REMOVAL



ROADWAY LEGEND

- 9 PVT CON HMA BR APP SL (42000070)
- 10 SPBGR TY A 6FT POSTS (63000001)
- 11 TRAF BAR TERM T2 (63100045)
- 12 TRAF BAR TERM T6 (63100085)
- 13 TRAF BAR TERM T1 SPL TAN (63100167)
- 14 HMA SHOULDERS 6 (48203023)
- 15 CONC MED TSB.06 (60619200)
- 16 TRAF BAR TERM T1 SPL TAN (COMB CC&G TB6.24 (60605000)
- 17 HMA SHARE-PATH
- 18 PATCHING

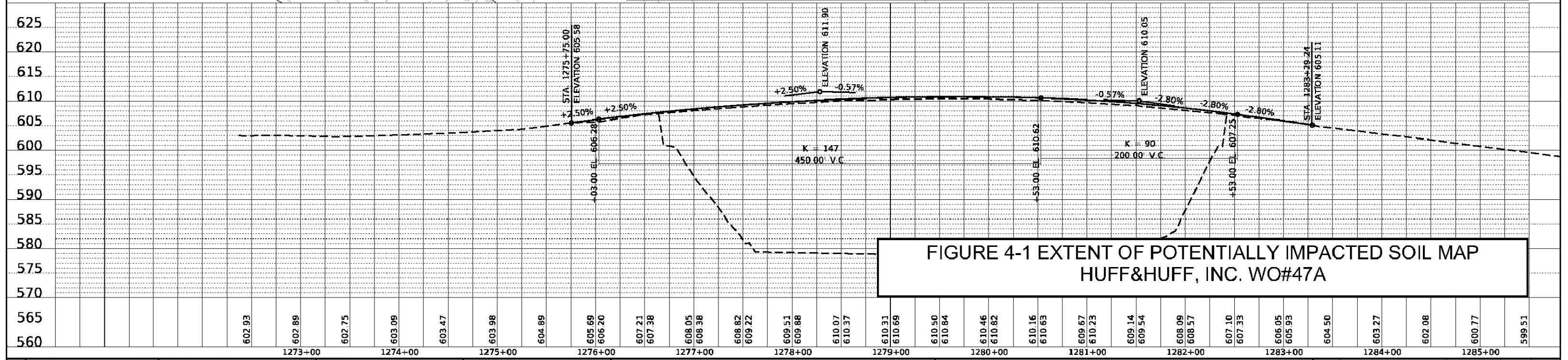


FIGURE 4-1 EXTENT OF POTENTIALLY IMPACTED SOIL MAP
 HUFF&HUFF, INC. WO#47A

COLLINS ENGINEERS USER NAME = #USER# PLDT SCALE = #SCALE# PLDT DATE = 12/16/2020	DESIGNED - ZJT	REVISD -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN & ELEVATION IL RTE 83 (127TH STREET)	F.A.P. RTE. 344	SECTION 2018-125-B-R	COUNTY COOK	TOTAL SHEETS 113	SHEET NO. 15	
	DRAWN - ZJT	REVISD -			CONTRACT NO. 62H52		ILLINOIS FED. AID PROJECT			
	CHECKED - EMK	REVISD -			SCALE:	SHEET NO. OF SHEETS	STA. TO STA.			



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220509.95 IDOT WO47
Sample ID: 3502V-5-01 (0-2)
Sample No: 21-2847-001

Date Collected: 05/12/21
Time Collected: 10:40
Date Received: 05/13/21
Date Reported: 05/26/21

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G		
Analysis Date: 05/14/21				
Total Solids	91.22		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 05/17/21				
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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Time Collected: 10:40
Date Received: 05/13/21
Date Reported: 05/26/21

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 05/17/21				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/25/21				
Preparation Date: 05/18/21				
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	198	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	



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Sample No: 21-2847-001

Date Collected: 05/12/21
Time Collected: 10:40
Date Received: 05/13/21
Date Reported: 05/26/21

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/25/21		Preparation Date: 05/18/21		
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	395	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	



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Sample No: 21-2847-001

Date Collected: 05/12/21
Time Collected: 10:40
Date Received: 05/13/21
Date Reported: 05/26/21

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/25/21		Preparation Date: 05/18/21		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/18/21		Preparation Date: 05/17/21		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	8.4	1.0	mg/kg	
Barium	38.8	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	85,500	50	mg/kg	
Chromium	14.5	0.5	mg/kg	
Cobalt	7.8	0.5	mg/kg	
Copper	27.7	0.5	mg/kg	
Iron	16,800	5.0	mg/kg	
Lead	46.6	0.5	mg/kg	
Magnesium	46,000	50	mg/kg	
Manganese	385	0.5	mg/kg	
Nickel	20.0	0.5	mg/kg	
Potassium	1,540	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	677	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	15.0	1.0	mg/kg	
Zinc	86.2	1.0	mg/kg	



Analytical Report

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Project ID: 81.0220509.95 IDOT WO47
Sample ID: 3502V-5-01 (0-2)
Sample No: 21-2847-001

Date Collected: 05/12/21
Time Collected: 10:40
Date Received: 05/13/21
Date Reported: 05/26/21

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 05/17/21				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D 2004				
Analysis Date: 05/17/21 15:15				
pH @ 25°C, 1:2	8.91		Units	
TCLP Extraction Method: 1311				
Analysis Date: 05/17/21				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 05/19/21				
Preparation Method 3010A				
Preparation Date: 05/19/21				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.2	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	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 05/19/21				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 05/17/21				
SPLP Metals Extraction	Complete			
Arsenic	0.011	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220509.95 IDOT WO47
Sample ID: 3502V-5-01 (0-2)
Sample No: 21-2847-001

Date Collected: 05/12/21
Time Collected: 10:40
Date Received: 05/13/21
Date Reported: 05/26/21

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/20/21		Preparation Date: 05/19/21		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.044	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.051	0.005	mg/L	
Iron	37.6	0.1	mg/L	
Lead	0.062	0.005	mg/L	
Manganese	0.3	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.3	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/19/21			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	97.4	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	103.1	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	114.7	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	106.7	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	70	45	112
8270C	2-Fluorophenol (Surr)	%R:	55	41	84
8270C	d14-Terphenyl (Surr)	%R:	75.2	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	78.7	35	105
8270C	Phenol-d5 (surr)	%R:	67.3	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220509.95 IDOT WO47
Sample ID: 3502V-12-01 (0-2)
Sample No: 21-2847-003

Date Collected: 05/12/21
Time Collected: 10:30
Date Received: 05/13/21
Date Reported: 05/26/21

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G		
Analysis Date: 05/14/21				
Total Solids	83.38		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 05/17/21				
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: 81.0220509.95 IDOT WO47
Sample ID: 3502V-12-01 (0-2)
Sample No: 21-2847-003

Date Collected: 05/12/21
Time Collected: 10:30
Date Received: 05/13/21
Date Reported: 05/26/21

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 05/17/21				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/25/21				
Preparation Date: 05/18/21				
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	120	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: 81.0220509.95 IDOT WO47
Sample ID: 3502V-12-01 (0-2)
Sample No: 21-2847-003

Date Collected: 05/12/21
Time Collected: 10:30
Date Received: 05/13/21
Date Reported: 05/26/21

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/25/21		Preparation Date: 05/18/21		
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: 81.0220509.95 IDOT WO47
Sample ID: 3502V-12-01 (0-2)
Sample No: 21-2847-003

Date Collected: 05/12/21
Time Collected: 10:30
Date Received: 05/13/21
Date Reported: 05/26/21

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/25/21		Preparation Date: 05/18/21		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/18/21		Preparation Date: 05/17/21		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.3	1.0	mg/kg	
Barium	53.1	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	42,200	50	mg/kg	
Chromium	15.7	0.5	mg/kg	
Cobalt	8.9	0.5	mg/kg	
Copper	25.8	0.5	mg/kg	
Iron	19,000	5.0	mg/kg	
Lead	76.6	0.5	mg/kg	
Magnesium	25,600	50	mg/kg	
Manganese	453	0.5	mg/kg	
Nickel	20.5	0.5	mg/kg	
Potassium	1,510	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	485	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	20.3	1.0	mg/kg	
Zinc	88.5	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220509.95 IDOT WO47
Sample ID: 3502V-12-01 (0-2)
Sample No: 21-2847-003

Date Collected: 05/12/21
Time Collected: 10:30
Date Received: 05/13/21
Date Reported: 05/26/21

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 05/17/21				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D 2004				
Analysis Date: 05/18/21 16:00				
pH @ 25°C, 1:2	7.37		Units	
TCLP Extraction Method: 1311				
Analysis Date: 05/17/21				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 05/19/21				
Preparation Method 3010A				
Preparation Date: 05/19/21				
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	0.4	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 05/19/21				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 05/17/21				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220509.95 IDOT WO47
Sample ID: 3502V-12-01 (0-2)
Sample No: 21-2847-003

Date Collected: 05/12/21
Time Collected: 10:30
Date Received: 05/13/21
Date Reported: 05/26/21

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/20/21		Preparation Date: 05/19/21		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.020	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.032	0.005	mg/L	
Iron	22.8	0.1	mg/L	
Lead	0.032	0.005	mg/L	
Manganese	0.2	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/19/21			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98.2	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	102.7	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	112.5	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	114.2	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	75	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	50.6	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	86.5	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	76.9	35 -	105
8270C	Phenol-d5 (surr)	%R:	64.6	50 -	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220509.95 IDOT WO47
Sample ID: 3502V-12-02 (0-2)
Sample No: 21-2847-004

Date Collected: 05/12/21
Time Collected: 10:15
Date Received: 05/13/21
Date Reported: 05/26/21

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G		
Analysis Date: 05/14/21				
Total Solids	85.33		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 05/17/21				
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: 81.0220509.95 IDOT WO47
Sample ID: 3502V-12-02 (0-2)
Sample No: 21-2847-004

Date Collected: 05/12/21
Time Collected: 10:15
Date Received: 05/13/21
Date Reported: 05/26/21

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 05/17/21				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/25/21				
Preparation Date: 05/18/21				
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	143	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: 81.0220509.95 IDOT WO47
Sample ID: 3502V-12-02 (0-2)
Sample No: 21-2847-004

Date Collected: 05/12/21
Time Collected: 10:15
Date Received: 05/13/21
Date Reported: 05/26/21

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/25/21		Preparation Date: 05/18/21		
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: 81.0220509.95 IDOT WO47
Sample ID: 3502V-12-02 (0-2)
Sample No: 21-2847-004

Date Collected: 05/12/21
Time Collected: 10:15
Date Received: 05/13/21
Date Reported: 05/26/21

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/25/21		Preparation Date: 05/18/21		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/18/21		Preparation Date: 05/17/21		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.4	1.0	mg/kg	
Barium	37.0	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	71,900	50	mg/kg	
Chromium	12.4	0.5	mg/kg	
Cobalt	7.5	0.5	mg/kg	
Copper	23.8	0.5	mg/kg	
Iron	15,600	5.0	mg/kg	
Lead	65.8	0.5	mg/kg	
Magnesium	43,000	50	mg/kg	
Manganese	375	0.5	mg/kg	
Nickel	18.2	0.5	mg/kg	
Potassium	1,420	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	157	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	15.4	1.0	mg/kg	
Zinc	91.3	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220509.95 IDOT WO47
Sample ID: 3502V-12-02 (0-2)
Sample No: 21-2847-004

Date Collected: 05/12/21
Time Collected: 10:15
Date Received: 05/13/21
Date Reported: 05/26/21

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 05/17/21				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D 2004				
Analysis Date: 05/18/21 16:00				
pH @ 25°C, 1:2	7.54		Units	
TCLP Extraction Method: 1311				
Analysis Date: 05/17/21				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 05/19/21				
Preparation Method 3010A				
Preparation Date: 05/19/21				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.3	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	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 05/19/21				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 05/17/21				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220509.95 IDOT WO47
Sample ID: 3502V-12-02 (0-2)
Sample No: 21-2847-004

Date Collected: 05/12/21
Time Collected: 10:15
Date Received: 05/13/21
Date Reported: 05/26/21

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/20/21		Preparation Date: 05/19/21		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.014	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.027	0.005	mg/L	
Iron	16.7	0.1	mg/L	
Lead	0.038	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/19/21			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	96.7	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	101.4	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	118.6	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	112	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	67.3	45	112
8270C	2-Fluorophenol (Surr)	%R:	52.3	41	84
8270C	d14-Terphenyl (Surr)	%R:	82.8	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	79.8	35	105
8270C	Phenol-d5 (surr)	%R:	66.7	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220509.95 IDOT WO47
Sample ID: 3502V-16-01 (0-2)
Sample No: 21-2847-005

Date Collected: 05/12/21
Time Collected: 8:45
Date Received: 05/13/21
Date Reported: 05/26/21

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G		
Analysis Date: 05/14/21				
Total Solids	81.96		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 05/17/21				
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: 81.0220509.95 IDOT WO47
Sample ID: 3502V-16-01 (0-2)
Sample No: 21-2847-005

Date Collected: 05/12/21
Time Collected: 8:45
Date Received: 05/13/21
Date Reported: 05/26/21

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 05/17/21				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/25/21				
Preparation Date: 05/18/21				
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	274	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: 81.0220509.95 IDOT WO47
Sample ID: 3502V-16-01 (0-2)
Sample No: 21-2847-005

Date Collected: 05/12/21
Time Collected: 8:45
Date Received: 05/13/21
Date Reported: 05/26/21

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/25/21		Preparation Date: 05/18/21		
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: 81.0220509.95 IDOT WO47
Sample ID: 3502V-16-01 (0-2)
Sample No: 21-2847-005

Date Collected: 05/12/21
Time Collected: 8:45
Date Received: 05/13/21
Date Reported: 05/26/21

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/25/21		Preparation Date: 05/18/21		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/18/21		Preparation Date: 05/17/21		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.3	1.0	mg/kg	
Barium	55.1	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	73,200	50	mg/kg	
Chromium	13.7	0.5	mg/kg	
Cobalt	6.7	0.5	mg/kg	
Copper	19.6	0.5	mg/kg	
Iron	14,400	5.0	mg/kg	
Lead	34.3	0.5	mg/kg	
Magnesium	38,400	50	mg/kg	
Manganese	349	0.5	mg/kg	
Nickel	16.1	0.5	mg/kg	
Potassium	1,380	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	595	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	17.0	1.0	mg/kg	
Zinc	67.9	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220509.95 IDOT WO47
Sample ID: 3502V-16-01 (0-2)
Sample No: 21-2847-005

Date Collected: 05/12/21
Time Collected: 8:45
Date Received: 05/13/21
Date Reported: 05/26/21

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 05/17/21				
Mercury	0.08	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D 2004				
Analysis Date: 05/18/21 16:00				
pH @ 25°C, 1:2	7.59		Units	
TCLP Extraction Method: 1311				
Analysis Date: 05/17/21				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 05/19/21				
Preparation Method 3010A Preparation Date: 05/19/21				
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	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 05/19/21				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 05/17/21				
SPLP Metals Extraction	Complete			
Arsenic	0.011	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220509.95 IDOT WO47
Sample ID: 3502V-16-01 (0-2)
Sample No: 21-2847-005

Date Collected: 05/12/21
Time Collected: 8:45
Date Received: 05/13/21
Date Reported: 05/26/21

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/20/21		Preparation Date: 05/19/21		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.038	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.051	0.005	mg/L	
Iron	29.6	0.1	mg/L	
Lead	0.102	0.005	mg/L	
Manganese	0.2	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	0.3	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/19/21			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary: Surrogate Recovery			
Method	Analyte	QC Result	%R Limits Low High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 97.9	86 - 117
5035A/8260B	d8-Toluene (Surr)	%R: 101.8	90 - 110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 110.2	77 - 120
8270C	2,4,6-Tribromophenol (Surr)	%R: 113.8	59 - 131
8270C	2-Fluorobiphenyl (Surr)	%R: 68.8	45 - 112
8270C	2-Fluorophenol (Surr)	%R: 57.9	41 - 84
8270C	d14-Terphenyl (Surr)	%R: 84.5	56 - 120
8270C	d5-Nitrobenzene (Surr)	%R: 83.7	35 - 105
8270C	Phenol-d5 (surr)	%R: 69.9	50 - 100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220509.95 IDOT WO47
Sample ID: 3502V-15-02 (0-5)
Sample No: 21-2847-008

Date Collected: 05/12/21
Time Collected: 9:30
Date Received: 05/13/21
Date Reported: 05/26/21

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G		
Analysis Date: 05/14/21				
Total Solids	87.37		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 05/17/21				
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: 81.0220509.95 IDOT WO47
Sample ID: 3502V-15-02 (0-5)
Sample No: 21-2847-008

Date Collected: 05/12/21
Time Collected: 9:30
Date Received: 05/13/21
Date Reported: 05/26/21

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 05/17/21				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/25/21				
Preparation Date: 05/18/21				
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: 81.0220509.95 IDOT WO47
Sample ID: 3502V-15-02 (0-5)
Sample No: 21-2847-008

Date Collected: 05/12/21
Time Collected: 9:30
Date Received: 05/13/21
Date Reported: 05/26/21

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/25/21		Preparation Date: 05/18/21		
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: 81.0220509.95 IDOT WO47
Sample ID: 3502V-15-02 (0-5)
Sample No: 21-2847-008

Date Collected: 05/12/21
Time Collected: 9:30
Date Received: 05/13/21
Date Reported: 05/26/21

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/25/21		Preparation Date: 05/18/21		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/18/21		Preparation Date: 05/17/21		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.2	1.0	mg/kg	
Barium	25.3	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	89,100	50	mg/kg	
Chromium	10.2	0.5	mg/kg	
Cobalt	8.5	0.5	mg/kg	
Copper	21.5	0.5	mg/kg	
Iron	16,300	5.0	mg/kg	
Lead	12.4	0.5	mg/kg	
Magnesium	49,700	50	mg/kg	
Manganese	495	0.5	mg/kg	
Nickel	22.1	0.5	mg/kg	
Potassium	1,410	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	2,490	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	14.6	1.0	mg/kg	
Zinc	47.7	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220509.95 IDOT WO47
Sample ID: 3502V-15-02 (0-5)
Sample No: 21-2847-008

Date Collected: 05/12/21
Time Collected: 9:30
Date Received: 05/13/21
Date Reported: 05/26/21

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 05/17/21				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D 2004				
Analysis Date: 05/18/21 16:00				
pH @ 25°C, 1:2	8.23		Units	
TCLP Extraction Method: 1311				
Analysis Date: 05/17/21				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 05/19/21				
Preparation Method 3010A				
Preparation Date: 05/19/21				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.6	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	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 05/19/21				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 05/17/21				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220509.95 IDOT WO47
Sample ID: 3502V-15-02 (0-5)
Sample No: 21-2847-008

Date Collected: 05/12/21
Time Collected: 9:30
Date Received: 05/13/21
Date Reported: 05/26/21

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/20/21		Preparation Date: 05/19/21		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/20/21			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary: Surrogate Recovery				
Method	Analyte	QC Result	%R Limits	
			Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 96.3	86	117
5035A/8260B	d8-Toluene (Surr)	%R: 100.4	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 112.6	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R: 111.7	59	131
8270C	2-Fluorobiphenyl (Surr)	%R: 66.4	45	112
8270C	2-Fluorophenol (Surr)	%R: 56.7	41	84
8270C	d14-Terphenyl (Surr)	%R: 78.1	56	120
8270C	d5-Nitrobenzene (Surr)	%R: 80.1	35	105
8270C	Phenol-d5 (surr)	%R: 68.4	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220509.95 IDOT WO47
Sample ID: 3502V-15-02 (5-10)
Sample No: 21-2847-009

Date Collected: 05/12/21
Time Collected: 9:35
Date Received: 05/13/21
Date Reported: 05/26/21

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G		
Analysis Date: 05/14/21				
Total Solids	86.13		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 05/17/21				
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: 81.0220509.95 IDOT WO47
Sample ID: 3502V-15-02 (5-10)
Sample No: 21-2847-009

Date Collected: 05/12/21
Time Collected: 9:35
Date Received: 05/13/21
Date Reported: 05/26/21

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 05/17/21				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/25/21				
Preparation Date: 05/18/21				
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: 81.0220509.95 IDOT WO47
Sample ID: 3502V-15-02 (5-10)
Sample No: 21-2847-009

Date Collected: 05/12/21
Time Collected: 9:35
Date Received: 05/13/21
Date Reported: 05/26/21

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/25/21		Preparation Date: 05/18/21		
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: 81.0220509.95 IDOT WO47
Sample ID: 3502V-15-02 (5-10)
Sample No: 21-2847-009

Date Collected: 05/12/21
Time Collected: 9:35
Date Received: 05/13/21
Date Reported: 05/26/21

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/25/21		Preparation Date: 05/18/21		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/18/21		Preparation Date: 05/17/21		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.3	1.0	mg/kg	
Barium	18.0	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	130,000	50	mg/kg	
Chromium	7.1	0.5	mg/kg	
Cobalt	6.6	0.5	mg/kg	
Copper	18.4	0.5	mg/kg	
Iron	14,700	5.0	mg/kg	
Lead	8.4	0.5	mg/kg	
Magnesium	69,300	50	mg/kg	
Manganese	439	0.5	mg/kg	
Nickel	14.5	0.5	mg/kg	
Potassium	1,470	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	1,500	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	10.3	1.0	mg/kg	
Zinc	30.8	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220509.95 IDOT WO47
Sample ID: 3502V-15-02 (5-10)
Sample No: 21-2847-009

Date Collected: 05/12/21
Time Collected: 9:35
Date Received: 05/13/21
Date Reported: 05/26/21

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 05/17/21				
Mercury	0.07	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D 2004				
Analysis Date: 05/18/21 16:00				
pH @ 25°C, 1:2	8.98		Units	
TCLP Extraction Method: 1311				
Analysis Date: 05/17/21				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 05/19/21				
Preparation Method 3010A				
Preparation Date: 05/19/21				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.2	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.2	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	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 05/19/21				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 05/17/21				
SPLP Metals Extraction	Complete			
Arsenic	0.011	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220509.95 IDOT WO47
Sample ID: 3502V-15-02 (5-10)
Sample No: 21-2847-009

Date Collected: 05/12/21
Time Collected: 9:35
Date Received: 05/13/21
Date Reported: 05/26/21

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/20/21		Preparation Date: 05/19/21		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.027	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.036	0.005	mg/L	
Iron	26.4	0.1	mg/L	
Lead	0.019	0.005	mg/L	
Manganese	0.2	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/20/21			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98.6	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	103.8	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	113	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	104.2	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	57.9	45	112
8270C	2-Fluorophenol (Surr)	%R:	48.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	75.2	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	68.3	35	105
8270C	Phenol-d5 (surr)	%R:	58.3	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220509.95 IDOT WO47
Sample ID: DUP-01 (0-2)
Sample No: 21-2847-010

Date Collected: 05/12/21
Time Collected: 9:01
Date Received: 05/13/21
Date Reported: 05/26/21

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G		
Analysis Date: 05/14/21				
Total Solids	86.55		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 05/17/21				
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: 81.0220509.95 IDOT WO47
Sample ID: DUP-01 (0-2)
Sample No: 21-2847-010

Date Collected: 05/12/21
Time Collected: 9:01
Date Received: 05/13/21
Date Reported: 05/26/21

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 05/17/21				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/25/21				
Preparation Date: 05/18/21				
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	214	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: 81.0220509.95 IDOT WO47
Sample ID: DUP-01 (0-2)
Sample No: 21-2847-010

Date Collected: 05/12/21
Time Collected: 9:01
Date Received: 05/13/21
Date Reported: 05/26/21

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/25/21		Preparation Date: 05/18/21		
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	402	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: 81.0220509.95 IDOT WO47
Sample ID: DUP-01 (0-2)
Sample No: 21-2847-010

Date Collected: 05/12/21
Time Collected: 9:01
Date Received: 05/13/21
Date Reported: 05/26/21

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/25/21		Preparation Date: 05/18/21		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/18/21		Preparation Date: 05/17/21		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.5	1.0	mg/kg	
Barium	36.1	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	78,600	50	mg/kg	
Chromium	11.8	0.5	mg/kg	
Cobalt	7.2	0.5	mg/kg	
Copper	23.1	0.5	mg/kg	
Iron	15,200	5.0	mg/kg	
Lead	64.7	0.5	mg/kg	
Magnesium	47,700	50	mg/kg	
Manganese	361	0.5	mg/kg	
Nickel	17.5	0.5	mg/kg	
Potassium	1,410	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	156	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	15.0	1.0	mg/kg	
Zinc	85.1	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220509.95 IDOT WO47
Sample ID: DUP-01 (0-2)
Sample No: 21-2847-010

Date Collected: 05/12/21
Time Collected: 9:01
Date Received: 05/13/21
Date Reported: 05/26/21

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 05/17/21				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D 2004				
Analysis Date: 05/18/21 16:00				
pH @ 25°C, 1:2	8.22		Units	
TCLP Extraction Method: 1311				
Analysis Date: 05/17/21				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 05/19/21				
Preparation Method 3010A				
Preparation Date: 05/19/21				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.6	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	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 05/19/21				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 05/17/21				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220509.95 IDOT WO47
Sample ID: DUP-01 (0-2)
Sample No: 21-2847-010

Date Collected: 05/12/21
Time Collected: 9:01
Date Received: 05/13/21
Date Reported: 05/26/21

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/20/21		Preparation Date: 05/19/21		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.017	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.029	0.005	mg/L	
Iron	23.6	0.1	mg/L	
Lead	0.055	0.005	mg/L	
Manganese	0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/19/21			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	96.4	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	101.6	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	110.9	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	117.1	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	71.3	45	112
8270C	2-Fluorophenol (Surr)	%R:	54.4	41	84
8270C	d14-Terphenyl (Surr)	%R:	79.6	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	76.2	35	105
8270C	Phenol-d5 (surr)	%R:	68.4	50	100



Illinois Environmental Protection Agency

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

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663 Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

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

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

I. Source Location Information

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

Project Name: IDOT 178008-047A IL-83 (127th St) at Cal Sag Road Office Phone Number, if available: 847-705-4122

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

3502V-17 (12700 S. Laramie Ave)

City: Alsip/Crestwood State: IL Zip Code: 60803

County: Cook Township: Worth, Bremen

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

Latitude: 41.66153 Longitude: - 87.75015

(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.): 36

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 in the Final PSI Report and boring 3502V-17-01 (IL RT 183 1284+75, 30 Left)

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 report #21-2847. A 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 22.51 a] 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:

Date: Jul 14, 2021

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

LPC-663 Results
 Soils for Unrestricted Reuse/Disposal at CCDD Facilities
 IDOT, District One
 Illinois Route 83 (127th Street) @ Cal Sag Road
 Crestwood and Alsip, Cook County, Illinois
 BDE Sequence No.: 21126
 PTB: 178-008 / H&H-1, Work Order No.: 047A

Boring ID Sample Depth, ft Sample Date Excavation Area(s) [ISGS Site No.(s)]	Soil Reference Concentrations ^{a/}	Soil Remediation Objective for Construction Workers ^{b/}	Soil Remediation Objective for Residential Exposure ^{c/}	3502V-17-01	3502V-17-01
				(0-5)	(5-10)
				05/12/2021	05/12/2021
				3502V-17	
Parameter					
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	8.15	8.14
VOCs, mg/kg				NO EXCEEDANCES	
SVOCs, mg/kg					
Benzo(a)pyrene	0.09 / 1.3 / 2.1	17	0.09	<0.09	<0.09
Total Metals, mg/kg					
Chromium	21	690	230	15	8.7
Iron	15,000 / 15,900	---	---	19600	13100
Lead	107	700	400	14.3	9.7
Manganese	630 / 636	4,100	1600	397	372
TCLP Metals, mg/L	Class I Groundwater ^{d/}				
Chromium		0.1		<0.005	<0.005
Iron		5		<0.1	<0.1
Lead		0.0075		<0.005	<0.005
Manganese		0.15		2.5	1.8
SPLP Metals, mg/L	Class I Groundwater ^{d/}				
Chromium		0.1		<0.005	<0.005
Iron		5		<0.1	<0.1
Lead		0.0075		<0.005	<0.005
Manganese		0.15		<0.1	<0.1

--- - Refers to not applicable or value not available

^{a/} Soil reference concentrations from MAC table. Background values for MSA counties are included as applicable.


Organic Soil Reference Concentrations (XX.XX / XX.XX / XX.XX) Include the Most Stringent Values from the MAC Table / The Chicago Corporate Limit / and The MSA County Excluding Chicago Values From the MAC Table.

^{b/} Soil Remediation Objective for Construction Workers, most stringent of the Ingestion or Inhalation exposure route.

^{c/} Soil Remediation Objective for Residential exposure, most stringent of the Ingestion or Inhalation exposure route.

^{d/} Soil Remediation Objective for the Groundwater Component of the Groundwater Ingestion Route, Class I Groundwater.

Bold indicates concentration detected

 Shaded values indicate concentration exceeds reference concentration

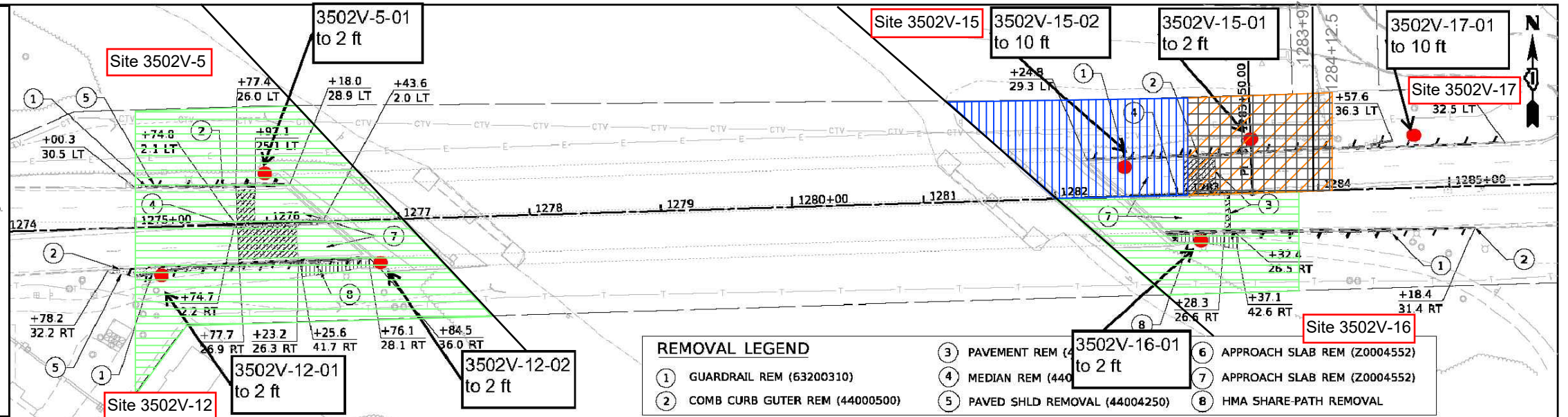
DATE: _____
 BY: _____
 CHECKED: _____
 NO. _____

DATE: _____
 BY: _____
 CHECKED: _____
 NO. _____

DESIGNED: _____
 DRAWN: _____
 CHECKED: _____
 NO. _____

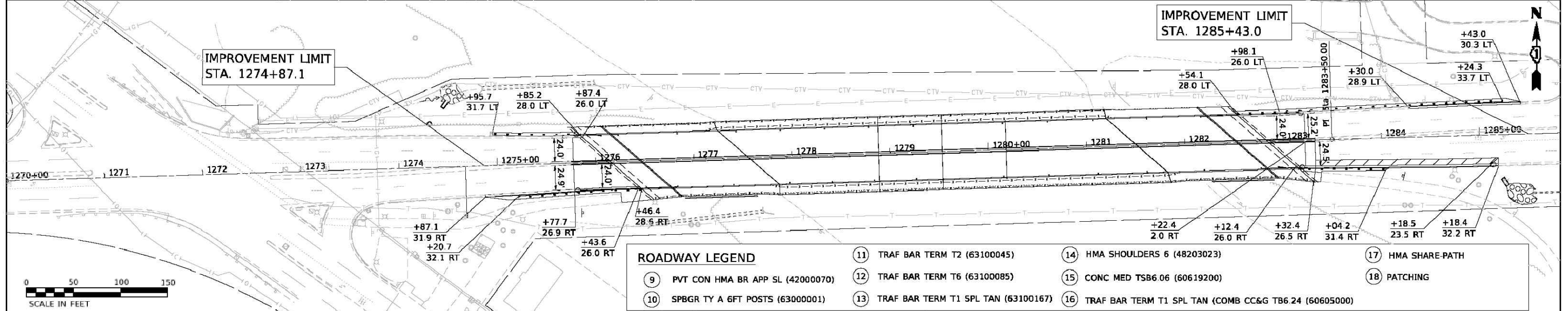
LEGEND

- SOIL BORING LOCATION
- IDENTIFIED SITE
- 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 OFF-SITE AS UNCONTAMINATED SOIL. CANNOT BE TAKEN TO A CCDD/USFO (b(1)).
- APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED TACO TIER 1 CONSTRUCTION WORKERS REFERENCE CONCENTRATIONS.
- AREAS WITHOUT SHADING ARE CONSIDERED UNRESTRICTED FOR REUSE AND OFF-SITE DISPOSAL.



REMOVAL LEGEND

- 1 GUARDRAIL REM (63200310)
- 2 COMB CURB GUTER REM (44000500)
- 3 PAVEMENT REM (44000500)
- 4 MEDIAN REM (44000500)
- 5 PAVED SHLD REMOVAL (44004250)
- 6 APPROACH SLAB REM (Z0004552)
- 7 APPROACH SLAB REM (Z0004552)
- 8 HMA SHARE-PATH REMOVAL



ROADWAY LEGEND

- 9 PVT CON HMA BR APP SL (42000070)
- 10 SPBGR TY A 6FT POSTS (63000001)
- 11 TRAF BAR TERM T2 (63100045)
- 12 TRAF BAR TERM T6 (63100085)
- 13 TRAF BAR TERM T1 SPL TAN (63100167)
- 14 HMA SHOULDERS 6 (48203023)
- 15 CONC MED TSB.06 (60619200)
- 16 TRAF BAR TERM T1 SPL TAN (COMB CC&G TB6.24 (60605000)
- 17 HMA SHARE-PATH
- 18 PATCHING

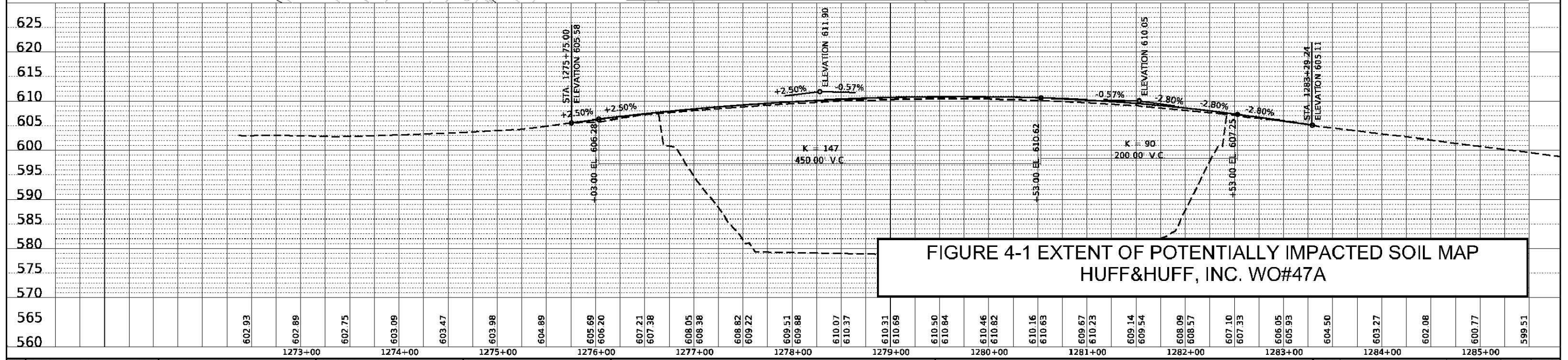


FIGURE 4-1 EXTENT OF POTENTIALLY IMPACTED SOIL MAP
 HUFF&HUFF, INC. WO#47A

COLLINS ENGINEERS <small>INC.</small>	USER NAME = #USER#	DESIGNED - ZJT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN & ELEVATION IL RTE 83 (127TH STREET)	F.A.P. RTE. 344	SECTION 2018-125-B-R	COUNTY COOK	TOTAL SHEETS 113	SHEET NO. 15		
	PLDT SCALE = #SCALE#	CHECKED - EMK	REVISED -			SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	CONTRACT NO. 62H52			
	PLDT DATE = 12/16/2020	DATE - 12/14/2020	REVISED -			ILLINOIS FED. AID PROJECT						



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220509.95 IDOT WO47
Sample ID: 3502V-17-01 (0-5)
Sample No: 21-2847-006

Date Collected: 05/12/21
Time Collected: 9:15
Date Received: 05/13/21
Date Reported: 05/26/21

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G		
Analysis Date: 05/14/21				
Total Solids	87.23		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 05/17/21				
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: 81.0220509.95 IDOT WO47
Sample ID: 3502V-17-01 (0-5)
Sample No: 21-2847-006

Date Collected: 05/12/21
Time Collected: 9:15
Date Received: 05/13/21
Date Reported: 05/26/21

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 05/17/21				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/25/21				
Preparation Date: 05/18/21				
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: 81.0220509.95 IDOT WO47
Sample ID: 3502V-17-01 (0-5)
Sample No: 21-2847-006

Date Collected: 05/12/21
Time Collected: 9:15
Date Received: 05/13/21
Date Reported: 05/26/21

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/25/21		Preparation Date: 05/18/21		
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: 81.0220509.95 IDOT WO47
Sample ID: 3502V-17-01 (0-5)
Sample No: 21-2847-006

Date Collected: 05/12/21
Time Collected: 9:15
Date Received: 05/13/21
Date Reported: 05/26/21

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/25/21		Preparation Date: 05/18/21		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/18/21		Preparation Date: 05/17/21		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.9	1.0	mg/kg	
Barium	36.0	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	74,400	50	mg/kg	
Chromium	15.0	0.5	mg/kg	
Cobalt	10.9	0.5	mg/kg	
Copper	27.1	0.5	mg/kg	
Iron	19,600	5.0	mg/kg	
Lead	14.3	0.5	mg/kg	
Magnesium	40,100	50	mg/kg	
Manganese	397	0.5	mg/kg	
Nickel	27.8	0.5	mg/kg	
Potassium	2,150	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	745	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	20.0	1.0	mg/kg	
Zinc	55.9	1.0	mg/kg	



Analytical Report

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Project ID: 81.0220509.95 IDOT WO47
Sample ID: 3502V-17-01 (0-5)
Sample No: 21-2847-006

Date Collected: 05/12/21
Time Collected: 9:15
Date Received: 05/13/21
Date Reported: 05/26/21

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 05/17/21				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D 2004				
Analysis Date: 05/18/21 16:00				
pH @ 25°C, 1:2	8.15		Units	
TCLP Extraction Method: 1311				
Analysis Date: 05/17/21				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 05/19/21				
Preparation Method 3010A				
Preparation Date: 05/19/21				
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	2.5	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 05/19/21				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 05/17/21				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220509.95 IDOT WO47
Sample ID: 3502V-17-01 (0-5)
Sample No: 21-2847-006

Date Collected: 05/12/21
Time Collected: 9:15
Date Received: 05/13/21
Date Reported: 05/26/21

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/20/21		Preparation Date: 05/19/21		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/19/21			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	96.8	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	101.2	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	111.8	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	110.5	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	69.2	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	58.8	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	76.8	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	79.4	35 -	105
8270C	Phenol-d5 (surr)	%R:	73.1	50 -	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220509.95 IDOT WO47
Sample ID: 3502V-17-01 (5-10)
Sample No: 21-2847-007

Date Collected: 05/12/21
Time Collected: 9:20
Date Received: 05/13/21
Date Reported: 05/26/21

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G		
Analysis Date: 05/14/21				
Total Solids	89.36		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 05/17/21				
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: 81.0220509.95 IDOT WO47
Sample ID: 3502V-17-01 (5-10)
Sample No: 21-2847-007

Date Collected: 05/12/21
Time Collected: 9:20
Date Received: 05/13/21
Date Reported: 05/26/21

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 05/17/21				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/25/21				
Preparation Date: 05/18/21				
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: 81.0220509.95 IDOT WO47
Sample ID: 3502V-17-01 (5-10)
Sample No: 21-2847-007

Date Collected: 05/12/21
Time Collected: 9:20
Date Received: 05/13/21
Date Reported: 05/26/21

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/25/21		Preparation Date: 05/18/21		
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: 81.0220509.95 IDOT WO47
Sample ID: 3502V-17-01 (5-10)
Sample No: 21-2847-007

Date Collected: 05/12/21
Time Collected: 9:20
Date Received: 05/13/21
Date Reported: 05/26/21

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/25/21		Preparation Date: 05/18/21		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/18/21		Preparation Date: 05/17/21		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.5	1.0	mg/kg	
Barium	17.3	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	133,000	50	mg/kg	
Chromium	8.7	0.5	mg/kg	
Cobalt	6.2	0.5	mg/kg	
Copper	16.5	0.5	mg/kg	
Iron	13,100	5.0	mg/kg	
Lead	9.7	0.5	mg/kg	
Magnesium	71,200	50	mg/kg	
Manganese	372	0.5	mg/kg	
Nickel	14.4	0.5	mg/kg	
Potassium	1,410	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	448	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	9.9	1.0	mg/kg	
Zinc	33.8	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220509.95 IDOT WO47
Sample ID: 3502V-17-01 (5-10)
Sample No: 21-2847-007

Date Collected: 05/12/21
Time Collected: 9:20
Date Received: 05/13/21
Date Reported: 05/26/21

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/20/21		Preparation Date: 05/19/21		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/19/21			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary: Surrogate Recovery				
Method	Analyte	QC Result	%R Limits	
			Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 97.5	86	117
5035A/8260B	d8-Toluene (Surr)	%R: 101.4	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 110.4	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R: 94.8	59	131
8270C	2-Fluorobiphenyl (Surr)	%R: 49.5	45	112
8270C	2-Fluorophenol (Surr)	%R: 56.7	41	84
8270C	d14-Terphenyl (Surr)	%R: 76.6	56	120
8270C	d5-Nitrobenzene (Surr)	%R: 71.1	35	105
8270C	Phenol-d5 (surr)	%R: 66.5	50	100