

178-008 WO#019A

APPENDIX D

LPC-663 CCDD DOCUMENTS



Illinois Environmental Protection Agency

Page 1 of 2

Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

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: FAU 0347 IL Route 38 Office Phone Number, if available: 847-705-4122

Physical Site Location (address, including number and street):
1627V2-32-01 (942 E. State Street)

City: Geneva State: IL Zip Code: 60134

County: Kane Township: _____

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

Latitude: 41.8870 Longitude: -88.2918

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

☐ GPS ☐ Map Interpolation ☐ Photo Interpolation ☐ Survey ☒ Other

ISGS Public Land Survey System - Approximate Center of multiple addresses

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

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.

Project Name: FAU 0347 IL Route 38Latitude: 41.8870 Longitude: -88.2918Uncontaminated Site Certification**III. Basis for Certification and Attachments**

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

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

Refer to Figure 4-1.6 and 4-1.7 in the Final PSI Report and borings 1627V2-32-01 (IL 38 Sta 152+25, 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, Inc. report #19-0092. 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))

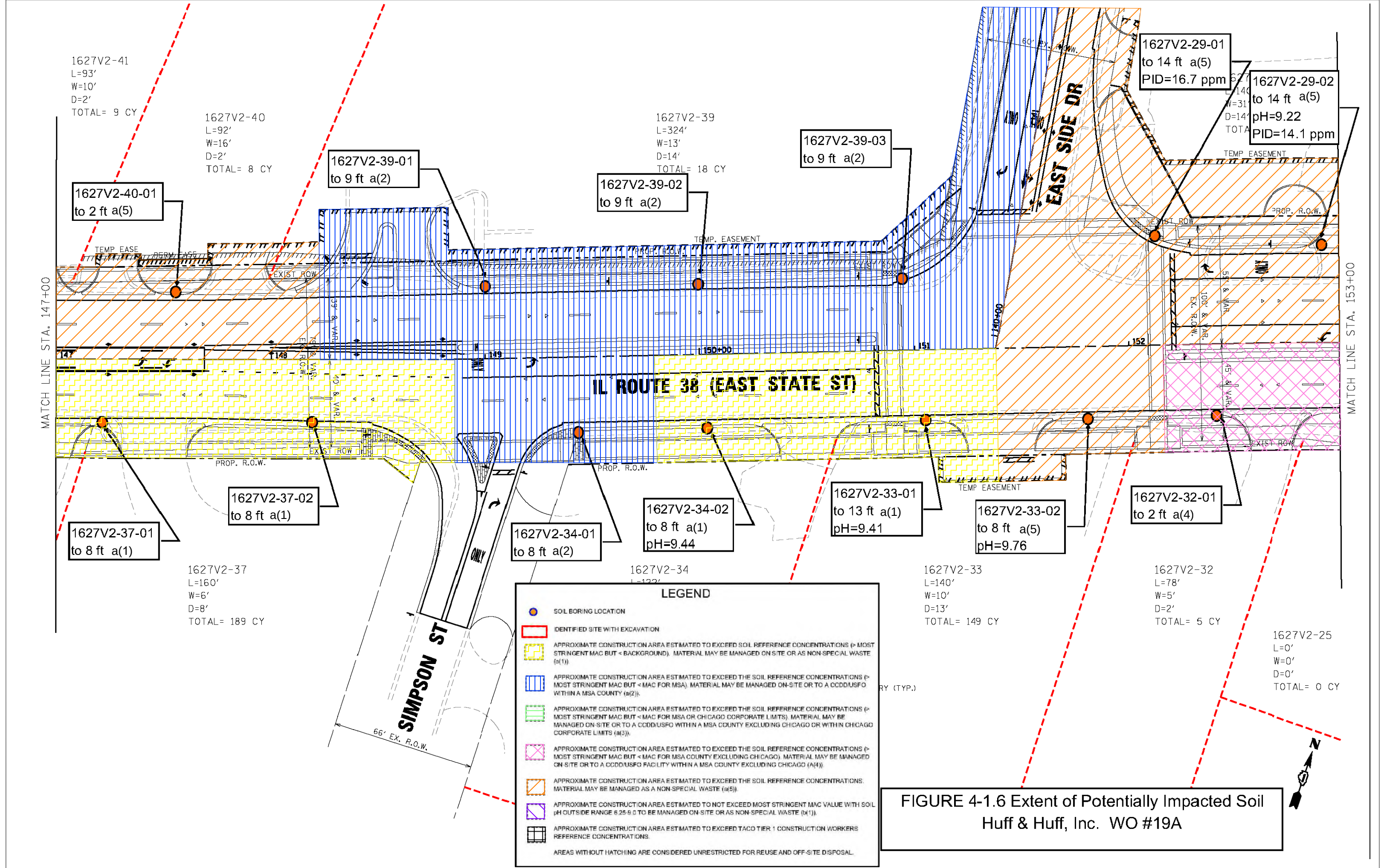
Company Name: Huff & Huff, Inc. / GZA GeoEnvironmental, Inc.Street Address: 915 Harger Road, Suite 330City: Oak Brook State: IL Zip Code: 60523Phone: 630-684-9100

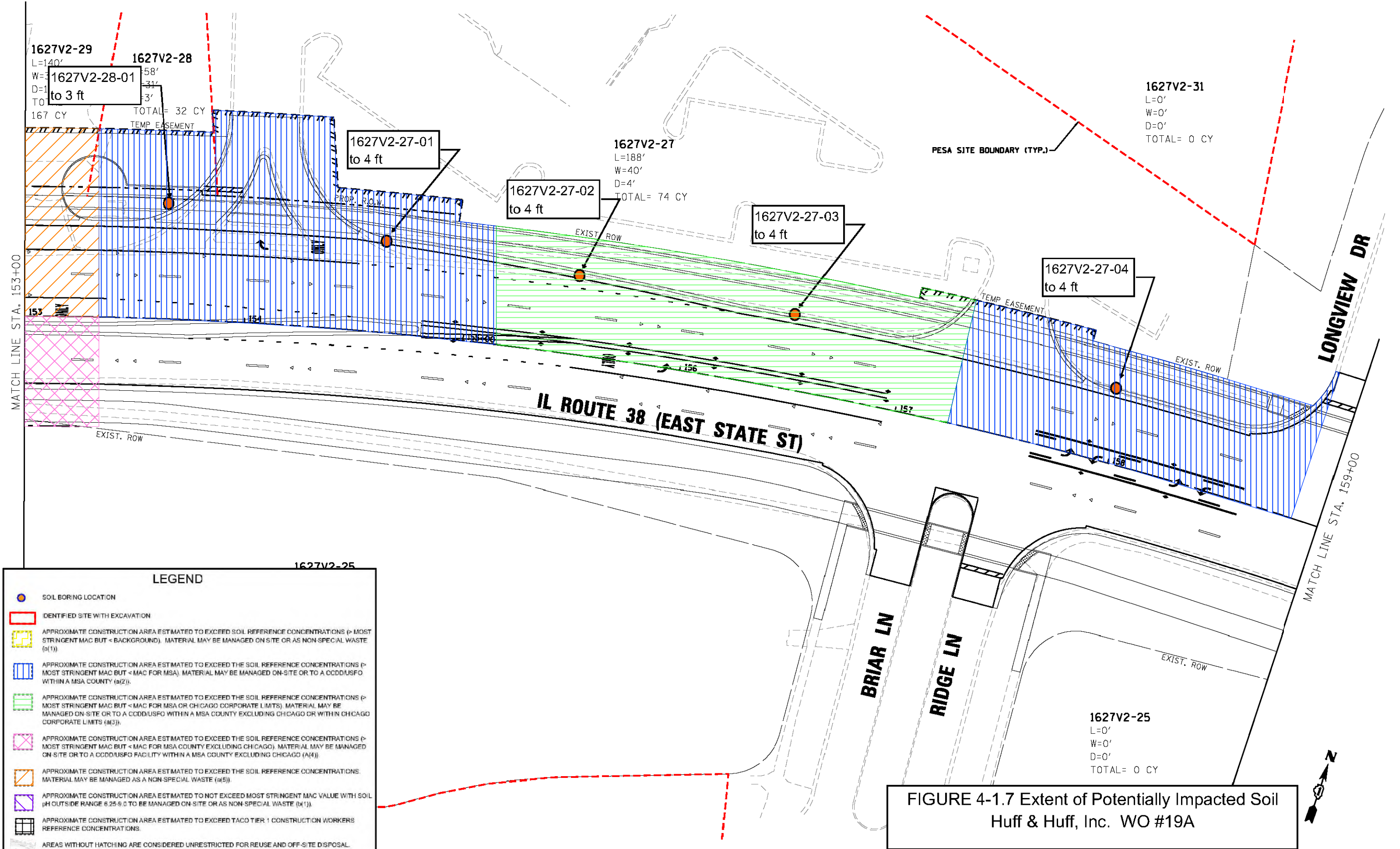
Jeremy J. Reynolds, P.G.

Printed Name:


 Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

Date: 2/12/19





Soils for Reuse or Disposal at CCDD Facilities in MSA Counties *Excluding* Chicago
Illinois Department of Transportation, District One
IL Route 38 (East State Street)
Geneva, Kane County, Illinois
BDE Sequence No.: 13066C
PTB: 178-008/HH-1, Work Order No.: 19A

Boring ID	Soil Reference Concentrations ^{a/}	Soil Remediation Objective for Construction Workers ^{b/}	Soil Remediation Objective for Residential Exposure ^{c/}	1627V2-32-01
Sample Depth, ft				(0-2)
Sample Date				1/8/2019
Excavation Area(s) [ISGS Site No.(s)]				1627V2-32
Parameter				
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	7.97
VOCs, mg/kg				
SVOCs, mg/kg				
Benzo(a)pyrene	0.09 / 1.3 / 2.1	17	0.09	1.46
Benzo(b)fluoranthene	0.9 / 1.5 / 2.1	170	0.9	1.39
Dibenz(a,h)anthracene	0.09 / 0.2 / 0.42	17	0.09	0.211
Indeno(1,2,3-cd)pyrene	0.9 / 0.9 / 1.6	170	0.9	0.88
Total Metals, mg/kg				
Arsenic	11.3 / 13	61	13	5.1
Beryllium	22	410	160	0.6
Cadmium	5.2	200	78	<0.5
Calcium	---	---	---	3530
Chromium	21	690	230	14.5
Iron	15,000 / 15,900	---	---	15400
Lead	107	700	400	15.9
Manganese	630 / 636	4,100	1600	1000
Mercury	0.89	0.1	10	<0.05
Nickel	100	4,100	1600	11.7
TCLP Metals, mg/L	Class I Groundwater ^{d/}			
Arsenic		0.05		<0.010
Beryllium		0.004		<1.00
Cadmium		0.005		<0.005
Chromium		0.1		<0.005
Iron		5		0.2
Lead		0.0075		<0.005
Manganese		0.15		<0.1
Mercury		0.002		<0.0005
Nickel		0.1		<0.1
SPLP Metals, mg/L	Class I Groundwater ^{d/}			
Arsenic		0.05		<0.010
Beryllium		0.004		<0.004
Cadmium		0.005		<0.005
Chromium		0.1		0.075
Iron		5		64.7
Lead		0.0075		0.033
Manganese		0.15		0.8
Mercury		0.002		<0.0005
Nickel		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



**First
Environmental
Laboratories, Inc.**

IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT-WO19
Sample ID: 1627V2-32-01 (0-2)
Sample No: 19-0092-012

Date Collected: 01/08/19
Time Collected: 11:59
Date Received: 01/08/19
Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total				
Method: 2540B				
Analysis Date: 01/08/19				
Total Solids	77.69		%	
Volatile Organic Compounds				
Method: 5035A/8260B				
Analysis Date: 01/11/19				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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Time Collected: 11:59

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/11/19				
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: 01/10/19				Preparation Date: 01/09/19	
Acenaphthene	< 330	330	ug/kg		
Acenaphthylene	< 330	330	ug/kg		
Anthracene	< 330	330	ug/kg		
Benzidine	< 330	330	ug/kg		
Benzo(a)anthracene	1,210	330	ug/kg		
Benzo(a)pyrene	1,460	90	ug/kg		
Benzo(b)fluoranthene	1,390	330	ug/kg		
Benzo(k)fluoranthene	1,480	330	ug/kg		
Benzo(ghi)perylene	741	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	1,390	330	ug/kg		
Dibenzo(a,h)anthracene	211	90	ug/kg		
Dibenzofuran	< 330	330	ug/kg		
1,2-Dichlorobenzene	< 330	330	ug/kg		
1,3-Dichlorobenzene	< 330	330	ug/kg		
1,4-Dichlorobenzene	< 330	330	ug/kg		
3,3'-Dichlorobenzidine	< 660	660	ug/kg		
2,4-Dichlorophenol	< 330	330	ug/kg		



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Date Reported: 01/17/19

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Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 01/10/19		Preparation Date: 01/09/19		
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	3,080	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	880	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	1,220	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	2,470	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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Date Received: 01/08/19

Date Reported: 01/17/19

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Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 01/10/19		Preparation Date: 01/09/19		
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: 01/09/19		Preparation Date: 01/09/19		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.1	1.0	mg/kg	
Barium	139	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	3,530	50	mg/kg	
Chromium	14.5	0.5	mg/kg	
Cobalt	10.5	0.5	mg/kg	
Copper	10.4	0.5	mg/kg	
Iron	15,400	5.0	mg/kg	
Lead	15.9	0.5	mg/kg	
Magnesium	2,200	50	mg/kg	
Manganese	1,000	0.5	mg/kg	
Nickel	11.7	0.5	mg/kg	
Potassium	872	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	249	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	30.7	1.0	mg/kg	
Zinc	38.8	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 01/09/19				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2				
Method: 9045D 2004				
Analysis Date: 01/09/19 13:30				
pH @ 25°C, 1:2	7.97		Units	
TCLP Extraction				
Method: 1311				
Analysis Date: 01/09/19				
TCLP Extraction	Complete			



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Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311		Method: 6010C		
Analysis Date: 01/11/19		Preparation Method 3010A		
		Preparation Date: 01/10/19		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	< 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: 01/11/19				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction		Method: 1312		
Analysis Date: 01/09/19				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		
Analysis Date: 01/14/19		Preparation Method 3010A		
		Preparation Date: 01/11/19		
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	0.075	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.058	0.005	mg/L	
Iron	64.7	0.1	mg/L	
Lead	0.033	0.005	mg/L	
Manganese	0.8	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	



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Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312 Analysis Date: 01/14/19	Method: 6010C	Preparation Method 3010A Preparation Date: 01/11/19		
Zinc	0.2	0.1	mg/L	
SPLP Mercury Method 1312 Analysis Date: 01/15/19	Method: 7470A			
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: 99.2	86	117
5035A/8260B	d8-Toluene (Surr)	%R: 99.8	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 94.5	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R: 118.1	59	131
8270C	2-Fluorobiphenyl (Surr)	%R: 81.7	45	112
8270C	2-Fluorophenol (Surr)	%R: 48.9	41	84
8270C	d14-Terphenyl (Surr)	%R: 90	56	120
8270C	d5-Nitrobenzene (Surr)	%R: 70.4	35	105
8270C	Phenol-d5 (surr)	%R: 63.6	50	100



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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: FAU 0347 IL Route 38 Office Phone Number, if available: 847-705-4122

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

1627V2-4 (400blk 715 E. State St), 1627V2-11 (33w897 E. State St), 1627V2-16 (1190 E. State St), 1627V2-18 (1166 E. State St), 1627V2-23 (1040 E. State St), 1627V2-27 (975 E. State St), 1627V2-28 (821 E. State St), 1627V2-34 (830 E. State St), 1627V2-39 (765 E. State St), 1627V2-42 (703 E. State St), 1627V2-43 (722 E. State St)

City: Geneva State: IL Zip Code: 60134

County: Kane Township: _____

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

Latitude: 41.8876 Longitude: - 88.2886

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

☐ GPS ☐ Map Interpolation ☐ Photo Interpolation ☐ Survey ☒ Other

ISGS Public Land Survey System - Approximate Center of multiple addresses

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

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

Project Name: FAU 0347 IL Route 38

Latitude: 41.8876 Longitude: - 88.2886

Uncontaminated Site Certification**III. Basis for Certification and Attachments**

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

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

Refer to Figure 4-1.5-4-1.11 in the Final PSI Report and borings 1627V2-4-01 (IL 38 Sta 181+00, 50 Right), 1627V2-4-02 (IL 38 Sta 182+00, 50 Right), 1627V2-11-01 (IL 38 Sta 176+50, 30 Right), 1627V2-11-02 (IL 38 Sta 177+00, 30 Right), 1627V2-16-01 (IL 38 Sta 169+75, 30 Right), 1627V2-18-03 (IL 38 Sta 169+00, 30 Right), 1627V2-23-01 (IL 38 Sta 162+50, 30 Right), 1627V2-23-02 (IL 38 Sta 163+25, 30 Right), 1627V2-27-01 (IL 38 Sta 154+50, 30 Left), 1627V2-27-02 (IL 38 Sta 155+50, 30 Left), 1627V2-27-03 (IL 38 Sta 155+50, 30 Left), 1627V2-27-04 (IL 38 Sta 158+00, 30 Left), 1627V2-28-01 (IL 38 Sta 153+50, 30 Left), 1627V2-34-01 (IL 38 Sta 149+50, 30 Right), 1627V2-39-01 (IL 38 Sta 149+00, 40 Left), 1627V2-39-02 (IL 38 Sta 150+00, 40 Left), 1627V2-39-03 (IL 38 Sta 151+00, 40 Left), 1627V2-42-01 (IL 38 Sta 145+50, 40 Left), 1627V2-43-01 (IL 38 Sta 145+75, 40 Right)

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

Refer to Tables 4-2 and 4-3 in the Final PSI Report for results summary and First Environmental Laboratories, Inc. report #18-7651, 18-7722, 19-0092, and 19-0138. 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))

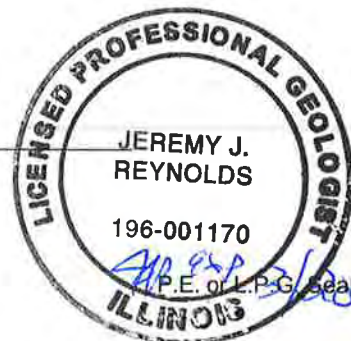
Company Name: Huff & Huff, Inc. / GZA GeoEnvironmental, Inc.Street Address: 915 Harger Road, Suite 330City: Oak Brook State: IL Zip Code: 60523Phone: 630-684-9100

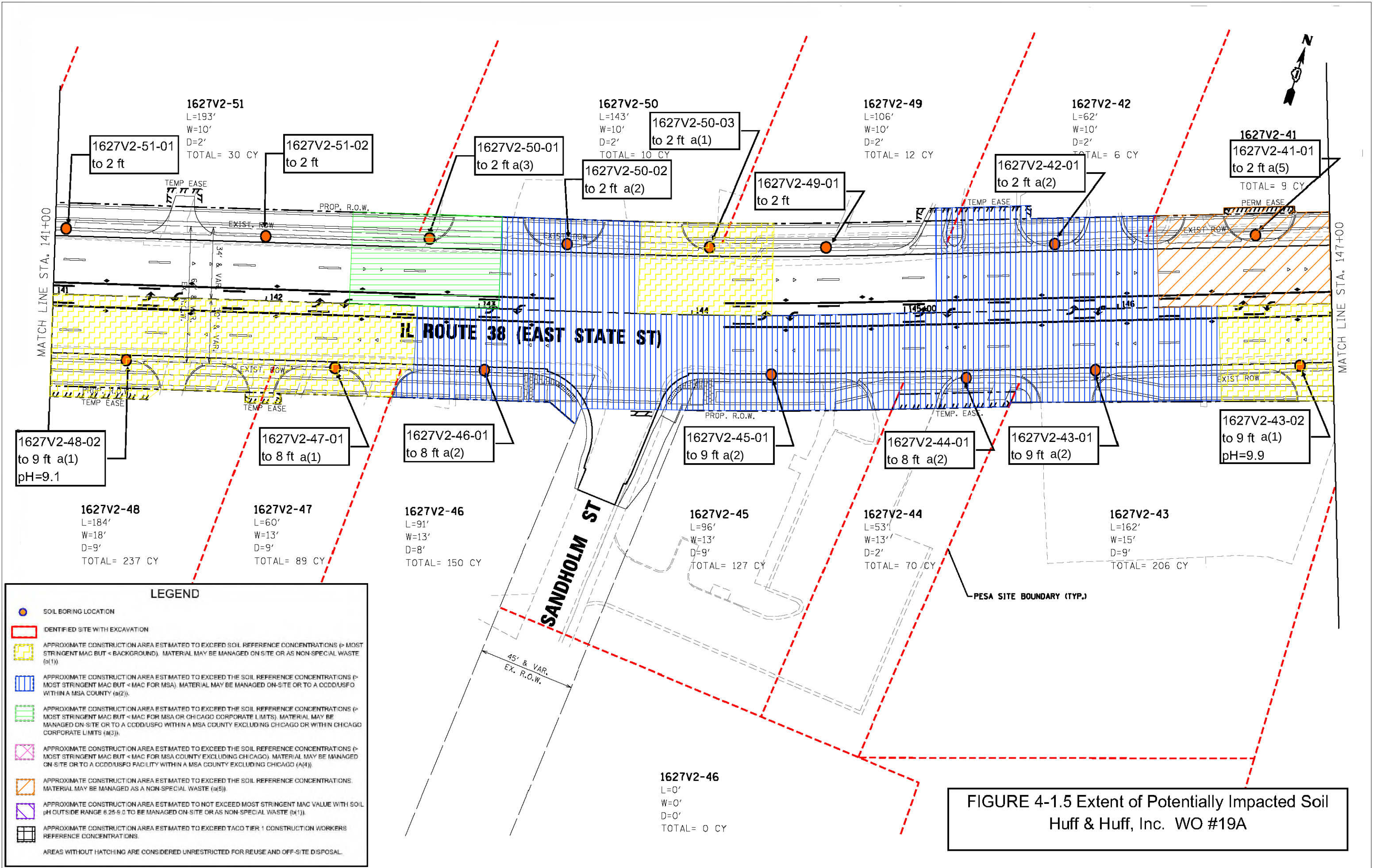
Jeremy J. Reynolds, P.G.

Printed Name:

[Signature]
Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Date:

2/12/19



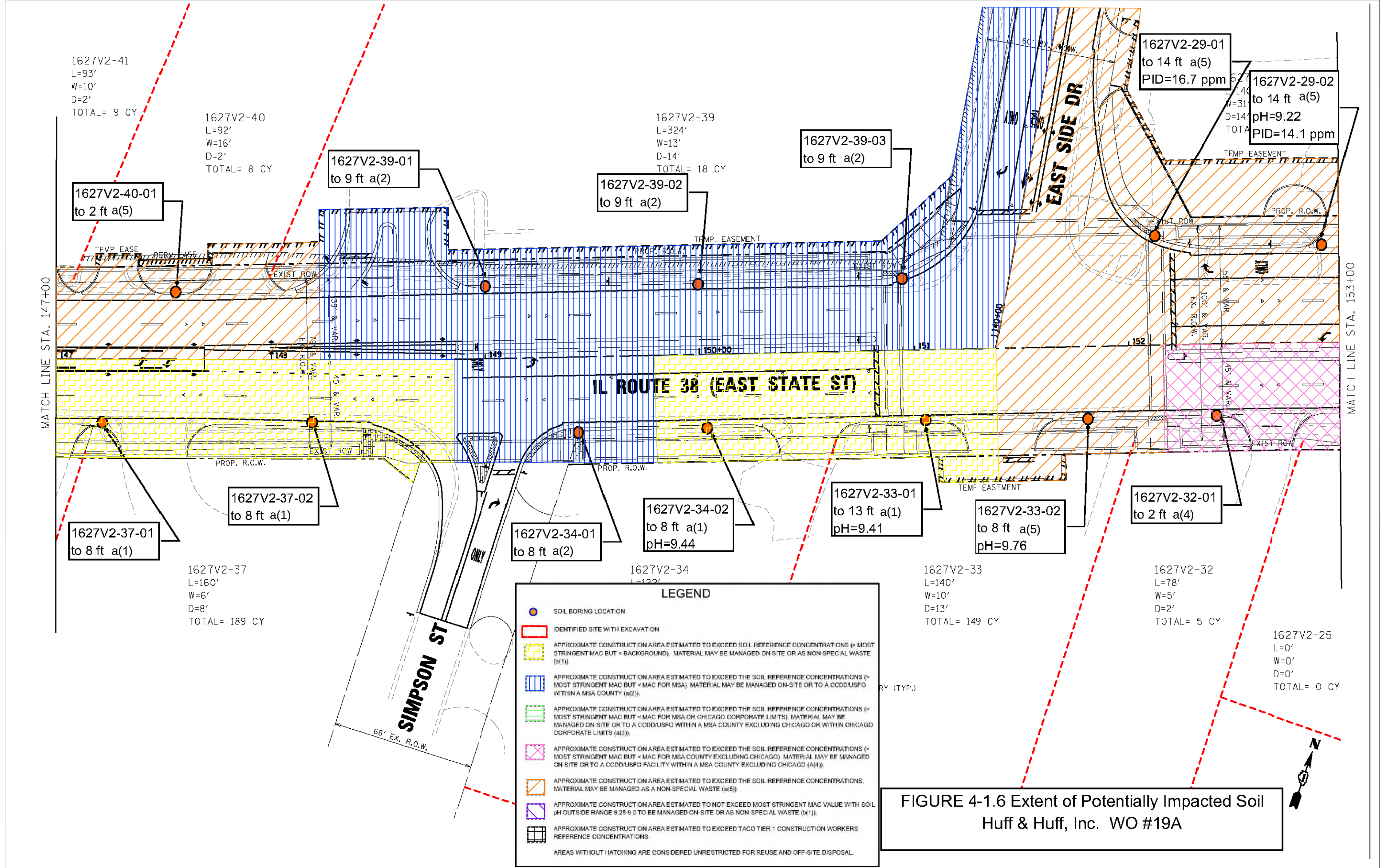


FIGURE 4-1.6 Extent of Potentially Impacted Soil
Huff & Huff, Inc. WO #19A

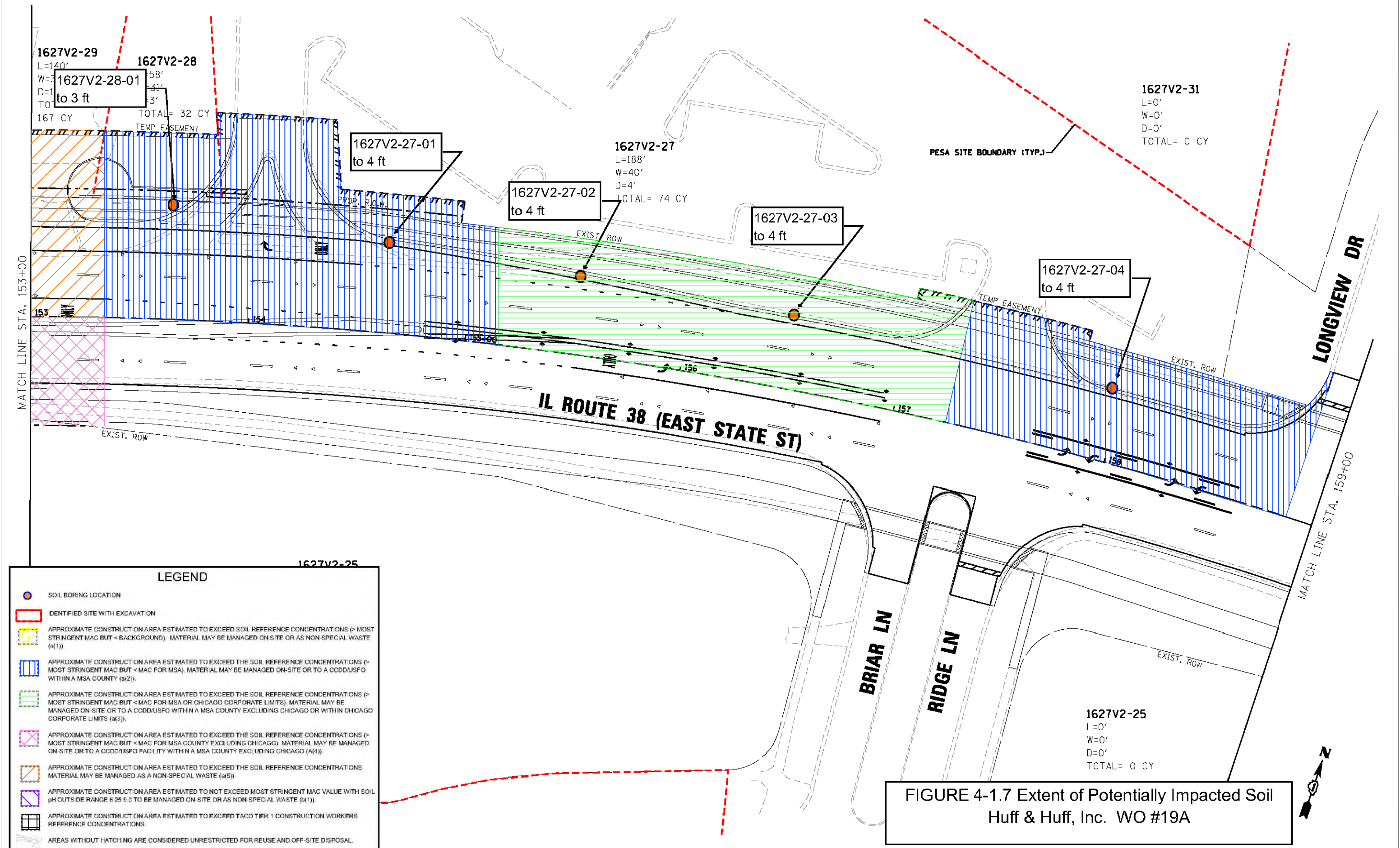


FIGURE 4-1.7 Extent of Potentially Impacted Soil
Huff & Huff, Inc. WO #19A

LEGEND

SOIL BORING LOCATION

IDENTIFIED SITE WITH EXCAVATION

APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < BACKGROUND). MATERIAL MAY BE MANAGED ON-SITE OR AS NON-SPECIAL WASTE (a(1)).

APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < MAC FOR MSA). MATERIAL MAY BE MANAGED ON-SITE OR TO A CDD/USFO WITHIN A MSA COUNTY (a(2)).

APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < MAC FOR MSA OR CHICAGO CORPORATE LIMITS). MATERIAL MAY BE MANAGED ON-SITE OR TO A CDD/USFO WITHIN A MSA COUNTY EXCLUDING CHICAGO OR WITHIN CHICAGO CORPORATE LIMITS (a(3)).

APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < MAC FOR MSA COUNTY EXCLUDING CHICAGO). MATERIAL MAY BE MANAGED ON-SITE OR TO A CDD/USFO FACILITY WITHIN A MSA COUNTY EXCLUDING CHICAGO (A(4)).

APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS. MATERIAL MAY BE MANAGED AS A NON-SPECIAL WASTE (a(5)).

APPROXIMATE CONSTRUCTION AREA ESTIMATED TO NOT EXCEED MOST STRINGENT MAC VALUE WITH SOIL pH OUTSIDE RANGE 6.25-9.0 TO BE MANAGED ON-SITE OR AS NON-SPECIAL WASTE (b(1)).

APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED TACO TIER 1 CONSTRUCTION WORKERS REFERENCE CONCENTRATIONS.

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

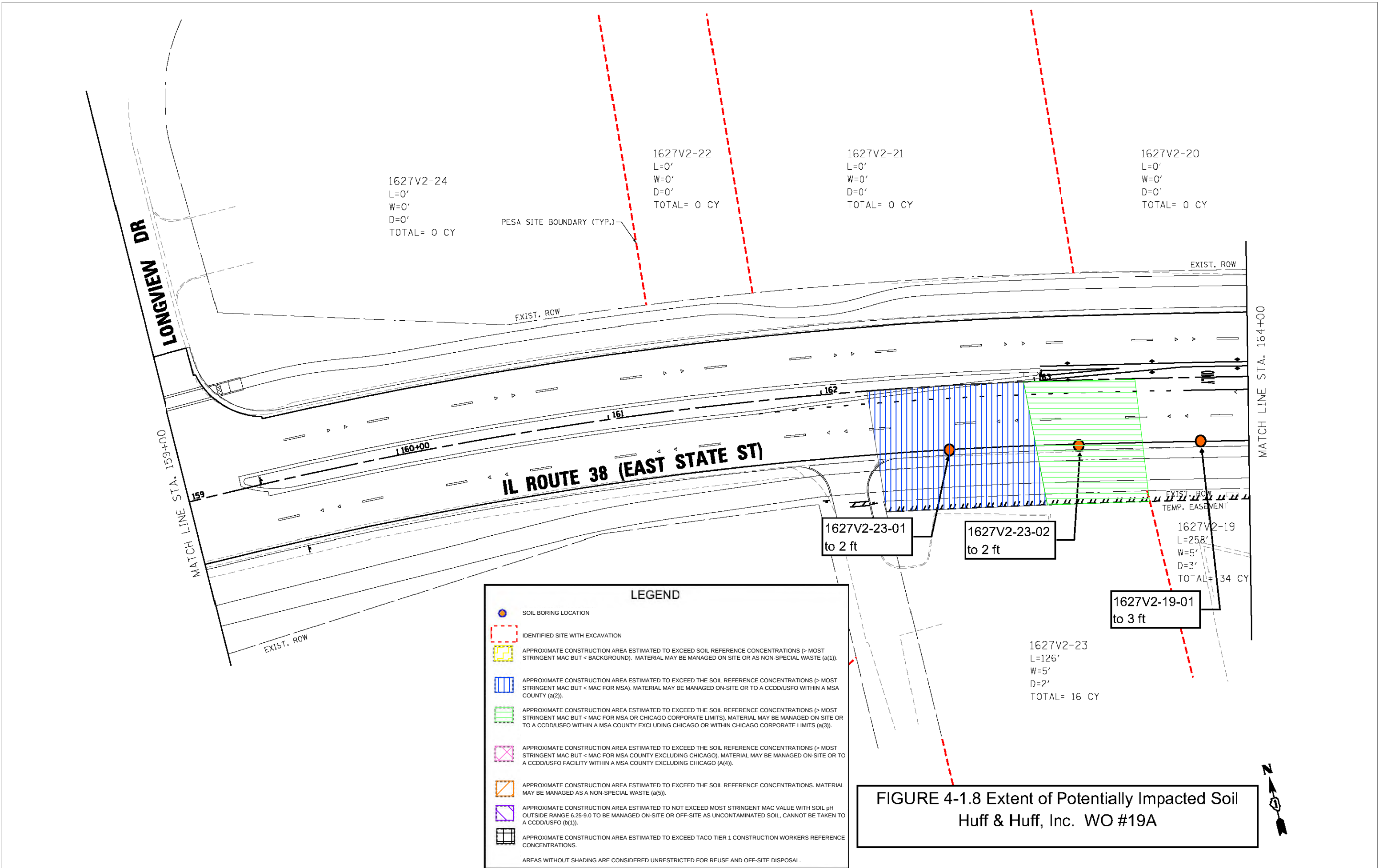


FIGURE 4-1.8 Extent of Potentially Impacted Soil
Huff & Huff, Inc. WO #19A

LEGEND

SOIL BORING LOCATION

IDENTIFIED SITE WITH EXCAVATION

APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < BACKGROUND). MATERIAL MAY BE MANAGED ON SITE OR AS NON-SPECIAL WASTE (a(1)).

APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < MAC FOR MSA). MATERIAL MAY BE MANAGED ON-SITE OR TO A CCDD/USFO WITHIN A MSA COUNTY (a(2)).

APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < MAC FOR MSA OR CHICAGO CORPORATE LIMITS). MATERIAL MAY BE MANAGED ON-SITE OR TO A CCDD/USFO WITHIN A MSA COUNTY EXCLUDING CHICAGO OR WITHIN CHICAGO CORPORATE LIMITS (a(3)).

APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < MAC FOR MSA COUNTY EXCLUDING CHICAGO). MATERIAL MAY BE MANAGED ON-SITE OR TO A CCDD/USFO FACILITY WITHIN A MSA COUNTY EXCLUDING CHICAGO (A(4)).

APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS. MATERIAL MAY BE MANAGED AS A NON-SPECIAL WASTE (a(5)).

APPROXIMATE CONSTRUCTION AREA ESTIMATED TO NOT EXCEED MOST STRINGENT MAC VALUE WITH SOIL pH OUTSIDE RANGE 6.25-9.0 TO BE MANAGED ON-SITE OR 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.

1627V2-20
L=0'
W=0'
D=0'
TOTAL= 0 CY

EXIST. ROW

MATCH LINE STA. 164+00

164 165+00 166 167 168 169

IL ROUTE 38 (EAST STATE ST)

EXIST. ROW

1627V2-19-02 to 3 ft

1627V2-19-03 to 3 ft

1627V2-18-01 to 3 ft

1627V2-18-02 to 3 ft

1627V2-18-03 to 3 ft

1627V2-16-01 to 2 ft

1627V2-19
L=258'
W=5'
D=3'
TOTAL= 34 CY

1627V2-18
L=100'
W=5'
D=2'
TOTAL= 3 CY

1627V2-16
L=31'
W=10'
D=2'
TOTAL= 3 CY

EXIST. ROW

TEMP. EASEMENT

PESA SITE BOUNDARY (TYP.)

MATCH LINE STA. 170+00

FIGURE 4-1.9 Extent of Potentially Impacted Soil
Huff & Huff, Inc. WO #19A

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IDOT IL Route 38 (East State Street) Geneva, Kane County, Illinois	F.A.U. RTE. 573	SECTION 61HB-B	COUNTY KANE	TOTAL SHEETS 11	SHE NO 9
		DRAWN -	REVISED -							
	PLOT SCALE =	CHECKED -	REVISED -							
	PLOT DATE =	DATE -	REVISED -							
					SHEET NO. 9 OF 11 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		
								CONTRACT NO. 60W52		

LEGEND

SOIL BORING LOCATION

IDENTIFIED SITE WITH EXCAVATION

APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < BACKGROUND). MATERIAL MAY BE MANAGED ON SITE OR AS NON-SPECIAL WASTE (a(1)).

APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < MAC FOR MSA). MATERIAL MAY BE MANAGED ON-SITE OR TO A CCDD/USFO WITHIN A MSA COUNTY (a(2)).

APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < MAC FOR MSA OR CHICAGO CORPORATE LIMITS). MATERIAL MAY BE MANAGED ON-SITE OR TO A CCDD/USFO WITHIN A MSA COUNTY EXCLUDING CHICAGO OR WITHIN CHICAGO CORPORATE LIMITS (a(3)).

APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < MAC FOR MSA COUNTY EXCLUDING CHICAGO). MATERIAL MAY BE MANAGED ON-SITE OR TO A CCDD/USFO FACILITY WITHIN A MSA COUNTY EXCLUDING CHICAGO (A(4)).

APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS. MATERIAL MAY BE MANAGED AS A NON-SPECIAL WASTE (a(5)).

APPROXIMATE CONSTRUCTION AREA ESTIMATED TO NOT EXCEED MOST STRINGENT MAC VALUE WITH SOIL pH OUTSIDE RANGE 6.25-9.0 TO BE MANAGED ON-SITE OR 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.

1627V2-6
L=0'
W=0'
D=0'
TOTAL= 0 CY

20' EX. SIDEWALK EASEMENT

10' EX. SIDEWALK EASEMENT

EXIST. ROW

MATCH LINE STA. 176+00

176

177

178

179

180+00

181

IL ROUTE 38 (EAST STATE ST)

EXIST. ROW

PROP. R.O.W.

1627V2-11-01
to 3 ft

1627V2-11-02
to 3 ft

1627V2-4-01
to 3 ft

TEMP. EASEMENT

EXIST. ROW

MATCH LINE STA. 182+00

1627V2-11
L=163'
W=15'
D=3'
TOTAL= 29 CY

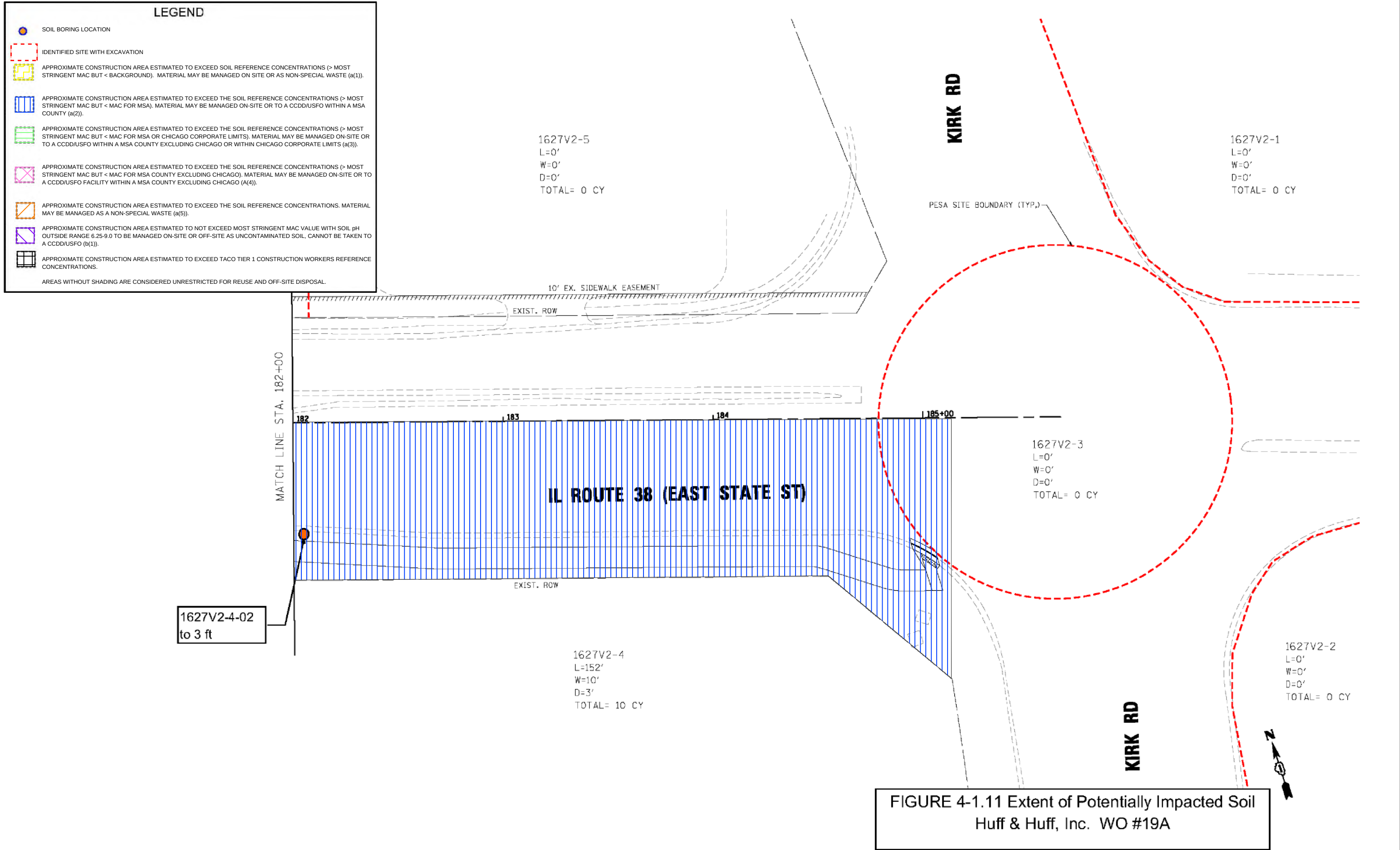
1627V2-10
L=0'
W=0'
D=0'
TOTAL= 0 CY

1627V2-4
L=152'
W=10'
D=3'
TOTAL= 10 CY

PESA SITE BOUNDARY (TYP.)

FIGURE 4-1.10 Extent of Potentially Impacted Soil
Huff & Huff, Inc. WO #19A

FILE NAME=	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		IDOT IL Route 38 (East State Street) Geneva, Kane County, Illinois		F.A.U. RTE. 573	SECTION 61HB-B	COUNTY KANE	TOTAL SHEETS 11	SHE NO 10		
		DRAWN -	REVISED -											
	PLOT SCALE =	CHECKED -	REVISED -											
	PLOT DATE =	DATE -	REVISED -											
					SHEET NO. 10 OF 11 SHEETS		STA.	TO STA.		ILLINOIS FED. AID PROJECT				
											CONTRACT NO. 60W52			



Soils for Reuse or Disposal at CCDD Facilities in MSA Counties ***Including*** Chicago
IL Route 38 (East State Street)
Geneva, Kane County, Illinois
BDE Sequence No.: 13066C
PTB: 178-008/HH-1, Work Order No.: 19A

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/}	1627V2-4-01	1627V2-4-02	1627V2-11-01	1627V2-11-02	1627V2-16-01	1627V2-18-03	1627V2-23-01	1627V2-23-02	1627V2-27-01	1627V2-27-02	DUP-02 (1627V2-27-02)	1627V2-27-03	1627V2-27-04
				(0-3)	(0-3)	(0-3)	(0-3)	(0-2)	(0-3)	(0-2)	(0-2)	(0-4)	(0-4)	(0-4)	(0-4)	(0-4)
				12/21/2018	12/21/2018	12/21/2018	12/21/2018	12/28/2018	12/28/2018	12/21/2018	12/21/2018	1/8/2019	1/8/2019	1/8/2019	1/8/2019	1/8/2019
				1627V2-4		1627V2-11		1627V2-16		1627V2-23		1627V2-27				
Parameter																
VOCs, mg/kg																
Benzene	0.03	2.2	0.8	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Carbon disulfide	9	9	720	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Methyl tert-butyl ether	0.32	140	780	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SVOCs, mg/kg																
Anthracene	12,000	610000	23000	<0.33	<0.66	<0.33	<0.66	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Benzdine	---	---	---	<0.33	<0.66	<0.33	<0.66	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Benzo(a)anthracene	0.9 / 1.1 / 1.8	170	0.9	0.639	<0.66	<0.33	0.552	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Benzo(a)pyrene	0.09 / 1.3 / 2.1	17	0.09	0.78	<0.18	<0.09	0.652	<0.09	<0.09	<0.09	0.096	<0.09	0.172	<0.09	0.092	<0.09
Benzo(b)fluoranthene	0.9 / 1.5 / 2.1	170	0.9	0.892	<0.66	<0.33	0.581	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Benzo(k)fluoranthene	9	1700	9	0.79	<0.66	<0.33	0.687	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Benzo(g,h,i)perylene	---	---	---	0.642	<0.66	<0.33	0.409	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Benzoic acid	400	820000	310000	<0.33	<0.66	<0.33	<0.66	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Bis(2-ethylhexyl)phthalate	46	4100	46	<0.33	<0.66	<0.33	<0.66	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Butyl benzyl phthalate	930	410000	930	<0.33	<0.66	<0.33	<0.66	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Carbazole	0.6	6200	32	<0.33	<0.66	<0.33	<0.66	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Chrysene	88	17000	88	0.827	<0.66	<0.33	0.612	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Dibenz(a,h)anthracene	0.09 / 0.2 / 0.42	17	0.09	0.158	<0.18	<0.09	0.11	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09
Fluoranthene	3,100	82,000	3,100	1.66	<0.66	<0.33	1.18	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Indeno(1,2,3-cd)pyrene	0.9 / 0.9 / 1.6	170	0.9	0.702	<0.66	<0.33	0.442	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	0.64	<0.66	<0.33	0.428	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Pyrene	2,300	61000	2300	1.3	<0.66	<0.33	0.965	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33

--- - 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 expsoure, most stringent of the Ingestion or Inhalation exposure route.

 Shaded values indicate concentration exceeds reference concentration

Soils for Reuse or Disposal at CCDD Facilities in MSA Counties ***Including*** Chicago
IL Route 38 (East State Street)
Geneva, Kane County, Illinois
BDE Sequence No.: 13066C
PTB: 178-008/HH-1, Work Order No.: 19A

Boring ID	Soil Reference Concentrations ^{a/}	Soil Remediation Objective for Construction Workers ^{b/}	Soil Remediation Objective for Residential Exposure ^{c/}	1627V2-28-01	1627V2-34-01	DUP-04 (1627V2-34-01)	1627V2-34-01	1627V2-39-01	1627V2-39-01	1627V2-39-02	1627V2-39-02	1627V2-39-03	1627V2-39-03	DUP-03 (1627V2-39-03)	1627V2-42-01	1627V2-43-01	1627V2-43-01				
Sample Depth, ft				(0-3)	(0-4)	(0-4)	(4-8)	(0-5)	(5-9)	(0-5)	(5-9)	(0-5)	(5-9)	(5-9)	(0-2)	(0-5)	(5-9)				
Sample Date				1/8/2019	1/8/2019	1/8/2019	1/8/2019	1/8/2019	1/8/2019	1/8/2019	1/8/2019	1/8/2019	1/8/2019	1/8/2019	1/8/2019	1/9/2019	1/9/2019	1/9/2019			
Excavation Area(s)				1627V2-28			1627V2-34			1627V2-39								1627V2-42		1627V2-43	
[ISGS Site No.(s)]																					
Parameter																					
VOCs, mg/kg																					
Benzene	0.03	2.2	0.8	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005				
Carbon disulfide	9	9	720	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005				
Methyl tert-butyl ether	0.32	140	780	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005				
SVOCs, mg/kg																					
Anthracene	12,000	610000	23000	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33				
Benzidine	---	---	---	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33				
Benzo(a)anthracene	0.9 / 1.1 / 1.8	170	0.9	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33				
Benzo(a)pyrene	0.09 / 1.3 / 2.1	17	0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09				
Benzo(b)fluoranthene	0.9 / 1.5 / 2.1	170	0.9	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33				
Benzo(k)fluoranthene	9	1700	9	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33				
Benzo(g,h,i)perylene	---	---	---	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33				
Benzoic acid	400	820000	310000	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33				
Bis(2-ethylhexyl)phthalate	46	4100	46	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33				
Butyl benzyl phthalate	930	410000	930	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33				
Carbazole	0.6	6200	32	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33				
Chrysene	88	17000	88	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33				
Dibenz(a,h)anthracene	0.09 / 0.2 / 0.42	17	0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09				
Fluoranthene	3,100	82,000	3,100	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33				
Indeno(1,2,3-cd)pyrene	0.9 / 0.9 / 1.6	170	0.9	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33				
Phenanthrene	---	---	---	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33				
Pyrene	2,300	61000	2300	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33				

--- - 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.

^{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

 Shaded values indicate concentration exceeds reference concentration

Soils for Reuse or Disposal at CCDD Facilities in MSA Counties Including Chicago
IL Route 38 (East State Street)
Geneva, Kane County, Illinois
BDE Sequence No.: 13066C
PTB: 178-008/HH-1, Work Order No.: 19A

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/}	1627V2-4-01	1627V2-4-02	1627V2-11-01	1627V2-11-02	1627V2-16-01	1627V2-18-03	1627V2-23-01	1627V2-23-02	1627V2-27-01	1627V2-27-02	DUP-02 (1627V2-27-02)	1627V2-27-03	1627V2-27-04	1627V2-28-01	
				(0-3)	(0-3)	(0-3)	(0-3)	(0-2)	(0-3)	(0-2)	(0-2)	(0-4)	(0-4)	(0-4)	(0-4)	(0-4)	(0-4)	(0-4)
				12/21/2018	12/21/2018	12/21/2018	12/21/2018	12/28/2018	12/28/2018	12/21/2018	12/21/2018	1/8/2019	1/8/2019	1/8/2019	1/8/2019	1/8/2019	1/8/2019	1/8/2019
				1627V2-4		1627V2-11		1627V2-16	1627V2-18	1627V2-23		1627V2-27					1627V2-28	
Parameter																		
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	8.71	8.37	8.55	8.8	8.64	8.67	8.5	8.11	8.44	8.3	8.30	7.61	8.89	8.41	
Total Metals, mg/kg																		
Antimony	5	82	31	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.1	<1.0	<1.0	<1.0	
Arsenic	11.3 / 13	61	13	4.4	5.9	4.9	4.9	4.5	3.4	2.5	7.4	4.5	5.3	4.6	4.7	5.5	5.3	
Barium	1,500	14,000	5500	92.2	79.3	68.4	83.9	126	54.2	35.9	91.5	69.1	104	74.8	101	24.8	81.1	
Beryllium	22	410	160	0.6	0.5	0.5	0.5	0.6	<0.5	<0.5	0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	
Cadmium	5.2	200	78	0.5	0.5	0.7	0.6	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Calcium	---	---	---	7870	7420	5530	26400	9160	19600	100000	39200	34100	5130	24600	26200	69300	9470	
Chromium	21	690	230	23	17	17.4	16.1	16	14.2	9.1	16.5	12.2	13.5	13.2	14.9	10.2	14	
Cobalt	20	12,000	4700	6.4	10.2	7.2	6.3	8.1	6.5	4.7	11.2	5.6	7.9	5.7	7.2	6.9	6.6	
Copper	2,900	8,200	2900	19.4	15.8	16.7	21.7	15.6	16.9	9.8	20.5	16.2	15.8	15.9	24.6	19	11.4	
Iron	15,000 / 15,900	---	---	16600	18500	17500	15600	16300	15400	9640	15900	14900	15900	14700	15500	14300	16300	
Lead	107	700	400	20.8	30.8	41.2	96.7	15.6	25	34	89.9	43.8	73.3	30.3	88.2	9.1	12.1	
Magnesium	325,000	730,000	325000	4600	5290	4750	16300	4300	12100	57900	24100	21100	3410	14100	15600	39000	6530	
Manganese	630 / 636	4,100	1600	425	556	310	405	548	379	379	751	373	622	269	525	369	254	
Mercury	0.89	0.1	10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.07	0.1	<0.05	0.07	<0.05	<0.05	
Nickel	100	4,100	1600	14	17.3	17.7	14	17	16.7	10.5	16.8	13.8	14.2	14.1	15.9	17.1	13.5	
Potassium	---	---	---	2620	2700	2700	2400	978	3070	2160	3150	1180	860	1210	851	844	975	
Selenium	1.3	1,000	390	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Silver	4.4	1,000	390	0.3	0.4	0.4	0.4	0.4	0.4	0.2	0.4	0.4	0.3	0.4	0.4	0.3	0.5	
Sodium	---	---	---	1230	568	2920	887	941	461	279	162	811	587	771	297	457	753	
Thallium	2.6	160	6.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Vanadium	550	1,400	550	27.2	28	27.7	23.1	29.3	21.4	12.9	25.4	23.4	24.3	22.9	26.4	17.3	29	
Zinc	5,100	61,000	23000	58.7	47.6	56.3	68.3	46.6	41	25.3	66.9	88	94.4	51	104	40.6	42.7	
TCLP Metals, mg/L	Class I Groundwater ^{d/}																	
Arsenic		0.05		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
Barium		2		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.1	<1.0	<1.0	
Beryllium		0.004		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
Cadmium		0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Chromium		0.1		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.009	
Cobalt		1		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Copper		0.65		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Iron		5		0.2	<0.1	0.1	<0.1	0.1	0.2	0.1	<0.1	0.1	0.2	0.2	<0.1	0.4	1	
Lead		0.0075		<0.005	<0.005	0.091	<0.005	0.022	0.024	0.018	0.007	<0.005	0.006	<0.005	0.054	0.01	0.007	
Manganese		0.15		0.2	0.2	9.1	0.3	0.2	<0.1	7.6	<0.1	0.3	0.2	0.2	11.5	5.9	0.2	
Mercury		0.002		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Nickel		0.1		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Selenium		0.05		<0.010	<0.010	0.015	<0.010	<0.010	<0.010	0.019	<0.010	<0.010	<0.010	<0.010	0.01	0.011	<0.010	
Silver		0.05		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Zinc		5		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	0.1	
SPLP Metals, mg/L	Class I Groundwater ^{d/}																	
Arsenic		0.05		<0.010	0.01	0.012	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.035	<0.010	0.025	0.017	
Barium		2		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Beryllium		0.004		<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.004	<0.004	<0.004	<0.004	
Cadmium		0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Chromium		0.1		0.039	0.027	0.047	0.038	0.035	0.023	0.025	0.01	0.031	0.03	0.168	0.025	0.079	0.061	
Cobalt		1		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Copper		0.65		0.032	0.024	0.061	0.029	0.023	0.023	0.033	0.015	0.03	0.046	0.137	0.046	0.102	0.055	
Iron		5		39.5	23.8	46.6	29.8	31.6	23.6	27.7	6.7	30.2	30.7	163	22.5	82.8	58.8	
Lead		0.0075		0.028	0.02	0.611	0.069	0.015	0.015	0.014	0.063	0.056	0.063	0.146	0.147	0.036	0.046	
Manganese		0.15		0.4	0.2	0.9	0.2	0.2	0.1	0.1	<0.1	0.3	0.3	1.1	0.4	0.5	0.5	
Mercury		0.002		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Nickel		0.1		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	
Selenium		0.05		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
Silver		0.05		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	<0.005	<0.005	<0.005	
Zinc		5		0.1	<0.1	0.2	0.1	0.1	<0.1	<0.1	<0.1	0.2	0.2	0.5	0.1	0.3	0.3	

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

ND - Refers to constituent not detected above the reporting limit

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

Inorganic Soil Reference Concentrations (xx.xx / xx.xx) Include the Most Stringent values from the MAC Table / and the MSA County Value From the MAC Table as Applicable

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

^{c/} Soil Remediation Objective for Residential expsoure, 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

Shaded values indicate concentration exceeds reference concentration

Soils for Reuse or Disposal at CCDD Facilities in MSA Counties Including Chicago
IL Route 38 (East State Street)
Geneva, Kane County, Illinois
BDE Sequence No.: 13066C
PTB: 178-008/HH-1, Work Order No.: 19A

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/}	1627V2-34-01	DUP-04 (1627V2- 34-01)	1627V2-34-01	1627V2-39-01	1627V2-39-01	1627V2-39-02	1627V2-39-02	1627V2-39-03	1627V2-39-03	DUP-03 (1627V2-39- 03)	1627V2-42-01	1627V2-43-01	1627V2-43-01	
				(0-4)	(0-4)	(4-8)	(0-5)	(5-9)	(0-5)	(5-9)	(0-5)	(5-9)	(5-9)	(5-9)	(0-2)	(0-5)	(5-9)
				1/8/2019	1/8/2019	1/8/2019	1/8/2019	1/8/2019	1/8/2019	1/8/2019	1/8/2019	1/8/2019	1/8/2019	1/8/2019	1/9/2019	1/9/2019	1/9/2019
								1627V2-39									
Parameter																	
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	8.41	8.54	8.37	8.99	8.98	7.98	8.98	7.46	8.49	8.65	8.7	8.89	8.85	
Total Metals, mg/kg																	
Antimony	5	82	31	<1.0	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	<1.0	<1.0	<1.0	
Arsenic	11.3 / 13	61	13	4.1	5.4	4.5	4.6	5.4	6	7.2	8.3	4.7	4.8	4.6	7.1	7.7	
Barium	1,500	14,000	5500	29.5	26.6	46.1	107	34.2	42.6	20.5	113	24.8	22.8	47.9	48.2	32	
Beryllium	22	410	160	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	
Cadmium	5.2	200	78	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Calcium	---	---	---	75800	75100	70800	88500	68300	64200	65600	3080	68300	82900	55300	71100	63000	
Chromium	21	690	230	8.4	12	10.6	8.7	10.3	11.2	9.3	19.3	9.1	11.4	11.8	9.9	11.8	
Cobalt	20	12,000	4700	8	7.9	6.8	6.4	6	7.2	6.8	11.2	6.9	6.4	7	7.1	9.3	
Copper	2,900	8,200	2900	14.4	19.3	15.3	18.7	17.2	17.8	15.2	15.3	14.8	15.8	19.4	17.4	21	
Iron	15,000 / 15,900	---	---	11500	15900	12800	13500	13900	15500	12700	23400	12700	14400	14200	15200	17400	
Lead	107	700	400	6.3	9.2	13.8	12.2	19	8.2	7.4	15.8	7.2	7.8	10.8	10.9	9.7	
Magnesium	325,000	730,000	325000	42800	39800	37900	44200	36200	37900	36000	3550	34800	39700	33400	38900	35500	
Manganese	630 / 636	4,100	1600	359	401	408	336	332	370	334	574	319	258	543	364	394	
Mercury	0.89	0.1	10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
Nickel	100	4,100	1600	16.1	21.8	13.2	16	14.6	18.4	15.9	17.7	16.3	16.1	19.1	17.3	21.5	
Potassium	---	---	---	842	2630	1150	1720	1100	1870	2580	883	2060	2480	1770	1710	1960	
Selenium	1.3	1,000	390	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Silver	4.4	1,000	390	0.3	0.4	0.3	0.4	0.4	0.4	0.3	0.6	0.3	0.4	0.3	0.4	0.4	
Sodium	---	---	---	203	295	270	510	533	533	374	408	206	211	491	1670	646	
Thallium	2.6	160	6.3	<1.0	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Vanadium	550	1,400	550	12.7	16.7	18.4	14.8	17.9	17.4	12.9	39	13.1	16.1	16.8	15.9	16.6	
Zinc	5,100	61,000	23000	26.3	63.8	34.2	36.8	36.6	36	33.2	43.2	31.4	36.9	36.5	49.6	42.1	
TCLP Metals, mg/L	Class I Groundwater ^{d/}																
Arsenic		0.05		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
Barium		2		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.1	<1.0	<1.0	
Beryllium		0.004		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
Cadmium		0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Chromium		0.1		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.011	<0.005	<0.005	<0.005	<0.005	
Cobalt		1		0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Copper		0.65		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Iron		5		1.2	<0.1	0.2	<0.1	0.1	0.1	0.3	0.4	8	<0.1	0.2	0.3	0.4	
Lead		0.0075		0.006	<0.005	0.019	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Manganese		0.15		6.7	1	9	0.6	0.5	1.2	1	9.2	0.9	1.4	1.8	5.2	1.3	
Mercury		0.002		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Nickel		0.1		0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Selenium		0.05		0.012	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
Silver		0.05		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Zinc		5		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
SPLP Metals, mg/L	Class I Groundwater ^{d/}																
Arsenic		0.05		0.016	0.048	0.033	0.026	0.034	0.017	0.041	<0.010	0.043	0.026	0.032	0.071	0.081	
Barium		2		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Beryllium		0.004		<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.006	
Cadmium		0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Chromium		0.1		0.042	0.083	0.101	0.047	0.062	0.05	0.062	0.036	0.075	0.047	0.1	0.113	0.135	
Cobalt		1		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Copper		0.65		0.065	0.149	0.148	0.083	0.107	0.064	0.114	0.03	0.134	0.076	0.149	0.206	0.236	
Iron		5		49.2	108	98.2	58.9	78.5	58.7	92.2	34.7	98.7	62.6	108	166	191	
Lead		0.0075		0.017	0.045	0.266	0.041	0.041	0.019	0.044	0.014	0.04	0.028	0.04	0.08	0.073	
Manganese		0.15		0.4	0.6	3.5	0.3	0.5	0.3	0.4	0.8	0.6	0.3	0.7	1.9	1.3	
Mercury		0.002		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Nickel		0.1		<0.1	0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	0.2	0.2	
Selenium		0.05		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
Silver		0.05		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Zinc		5		0.1	0.7	0.4	0.2	0.2	0.2	0.3	<0.1	0.4	0.2	0.3	0.6	0.6	

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

ND - Refers to constituent not detected above the reporting limit

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

Inorganic Soil Reference Concentrations (xx.xx / xx.xx) Include the Most Stringent values from the MAC Table / and the MSA County Value From the MAC Table as Applicable

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

^{c/} Soil Remediation Objective for Residential expsoure, 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

Shaded values indicate concentration exceeds reference concentration



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IL ELAP / NELAC Accreditation # 100292

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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO #19 IL 38

Sample ID: 1627V2-4-01 0-3

Sample No: 18-7651-001

Date Collected: 12/21/18

Time Collected: 10:26

Date Received: 12/21/18

Date Reported: 01/04/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total				
Method: 2540B				
Analysis Date: 12/21/18				
Total Solids	75.57		%	
Volatile Organic Compounds				
Method: 5035A/8260B				
Analysis Date: 01/02/19				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO #19 IL 38

Sample ID: 1627V2-4-01 0-3

Sample No: 18-7651-001

Date Collected: 12/21/18

Time Collected: 10:26

Date Received: 12/21/18

Date Reported: 01/04/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/02/19				
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: 01/03/19			Preparation Date: 12/26/18	
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	639	330	ug/kg	
Benzo(a)pyrene	780	90	ug/kg	
Benzo(b)fluoranthene	892	330	ug/kg	
Benzo(k)fluoranthene	790	330	ug/kg	
Benzo(ghi)perylene	642	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	827	330	ug/kg	
Dibenzo(a,h)anthracene	158	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO #19 IL 38
Sample ID: 1627V2-4-01 0-3
Sample No: 18-7651-001

Date Collected: 12/21/18
Time Collected: 10:26
Date Received: 12/21/18
Date Reported: 01/04/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 01/03/19		Preparation Date: 12/26/18		
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	1,660	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	702	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	640	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	1,300	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO #19 IL 38

Sample ID: 1627V2-4-01 0-3

Sample No: 18-7651-001

Date Collected: 12/21/18

Time Collected: 10:26

Date Received: 12/21/18

Date Reported: 01/04/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 01/03/19		Preparation Date: 12/26/18		
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: 12/27/18		Preparation Date: 12/26/18		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.4	1.0	mg/kg	
Barium	92.2	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	0.5	0.5	mg/kg	
Calcium	7,870	50	mg/kg	
Chromium	23.0	0.5	mg/kg	
Cobalt	6.4	0.5	mg/kg	
Copper	19.4	0.5	mg/kg	
Iron	16,600	5.0	mg/kg	
Lead	20.8	0.5	mg/kg	
Magnesium	4,600	50	mg/kg	
Manganese	425	0.5	mg/kg	
Nickel	14.0	0.5	mg/kg	
Potassium	2,620	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	1,230	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	27.2	1.0	mg/kg	
Zinc	58.7	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 12/26/18				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2				
Method: 9045D 2004				
Analysis Date: 12/26/18 11:25				
pH @ 25°C, 1:2	8.71		Units	
TCLP Extraction				
Method: 1311				
Analysis Date: 12/26/18				
TCLP Extraction	Complete			



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Client: HUFF & HUFF INC.

Project ID: IDOT WO #19 IL 38

Sample ID: 1627V2-4-01 0-3

Sample No: 18-7651-001

Date Collected: 12/21/18

Time Collected: 10:26

Date Received: 12/21/18

Date Reported: 01/04/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311		Method: 6010C		
Analysis Date: 12/28/18		Preparation Method 3010A		
		Preparation Date: 12/27/18		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	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	
TCLP Mercury Method 1311		Method: 7470A		
Analysis Date: 12/28/18				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction		Method: 1312		
Analysis Date: 12/26/18				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		
Analysis Date: 12/28/18		Preparation Method 3010A		
		Preparation Date: 12/28/18		
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	0.039	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.032	0.005	mg/L	
Iron	39.5	0.1	mg/L	
Lead	0.028	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	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO #19 IL 38

Sample ID: 1627V2-4-01 0-3

Sample No: 18-7651-001

Date Collected: 12/21/18

Time Collected: 10:26

Date Received: 12/21/18

Date Reported: 01/04/19

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: 12/28/18 Preparation Date: 12/28/18				
Zinc	0.1	0.1	mg/L	
SPLP Mercury Method 1312 Method: 7470A				
Analysis Date: 12/28/18				
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: 94.8	86	117
5035A/8260B	d8-Toluene (Surr)	%R: 93.6	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 93.9	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R: 107.6	59	131
8270C	2-Fluorobiphenyl (Surr)	%R: 76.6	45	112
8270C	2-Fluorophenol (Surr)	%R: 47.3	41	84
8270C	d14-Terphenyl (Surr)	%R: 78.1	56	120
8270C	d5-Nitrobenzene (Surr)	%R: 65.6	35	105
8270C	Phenol-d5 (surr)	%R: 59	50	100



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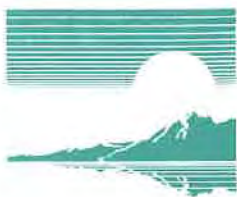
Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO #19 IL 38
Sample ID: 1627V2-4-02 0-3
Sample No: 18-7651-002

Date Collected: 12/21/18
Time Collected: 10:30
Date Received: 12/21/18
Date Reported: 01/04/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total Method: 2540B				
Analysis Date: 12/21/18				
Total Solids	77.14		%	
Volatile Organic Compounds Method: 5035A/8260B				
Analysis Date: 01/02/19				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



**First
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IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO #19 IL 38

Sample ID: 1627V2-4-02 0-3

Sample No: 18-7651-002

Date Collected: 12/21/18

Time Collected: 10:30

Date Received: 12/21/18

Date Reported: 01/04/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/02/19				
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: 01/03/19			Preparation Date: 12/26/18	
Acenaphthene	< 660	330	ug/kg	
Acenaphthylene	< 660	330	ug/kg	
Anthracene	< 660	330	ug/kg	
Benzidine	< 660	330	ug/kg	
Benzo(a)anthracene	< 660	330	ug/kg	
Benzo(a)pyrene	< 180	90	ug/kg	
Benzo(b)fluoranthene	< 660	330	ug/kg	
Benzo(k)fluoranthene	< 660	330	ug/kg	
Benzo(ghi)perylene	< 660	330	ug/kg	
Benzoic acid	< 660	330	ug/kg	
Benzyl alcohol	< 660	330	ug/kg	
bis(2-Chloroethoxy)methane	< 660	330	ug/kg	
bis(2-Chloroethyl)ether	< 660	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 660	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 660	330	ug/kg	
4-Bromophenyl phenyl ether	< 660	330	ug/kg	
Butyl benzyl phthalate	< 660	330	ug/kg	
Carbazole	< 660	330	ug/kg	
4-Chloroaniline	< 660	330	ug/kg	
4-Chloro-3-methylphenol	< 660	330	ug/kg	
2-Chloronaphthalene	< 660	330	ug/kg	
2-Chlorophenol	< 660	330	ug/kg	
4-Chlorophenyl phenyl ether	< 660	330	ug/kg	
Chrysene	< 660	330	ug/kg	
Dibenzo(a,h)anthracene	< 180	90	ug/kg	
Dibenzofuran	< 660	330	ug/kg	
1,2-Dichlorobenzene	< 660	330	ug/kg	
1,3-Dichlorobenzene	< 660	330	ug/kg	
1,4-Dichlorobenzene	< 660	330	ug/kg	
3,3'-Dichlorobenzidine	< 1,320	660	ug/kg	
2,4-Dichlorophenol	< 660	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO #19 IL 38

Sample ID: 1627V2-4-02 0-3

Sample No: 18-7651-002

Date Collected: 12/21/18

Time Collected: 10:30

Date Received: 12/21/18

Date Reported: 01/04/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 01/03/19		Preparation Date: 12/26/18		
Diethyl phthalate	< 660	330	ug/kg	
2,4-Dimethylphenol	< 660	330	ug/kg	
Dimethyl phthalate	< 660	330	ug/kg	
Di-n-butyl phthalate	< 660	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 3,200	1600	ug/kg	
2,4-Dinitrophenol	< 3,200	1600	ug/kg	
2,4-Dinitrotoluene	< 500	250	ug/kg	
2,6-Dinitrotoluene	< 520	260	ug/kg	
Di-n-octylphthalate	< 660	330	ug/kg	
Fluoranthene	< 660	330	ug/kg	
Fluorene	< 660	330	ug/kg	
Hexachlorobenzene	< 660	330	ug/kg	
Hexachlorobutadiene	< 660	330	ug/kg	
Hexachlorocyclopentadiene	< 660	330	ug/kg	
Hexachloroethane	< 660	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 660	330	ug/kg	
Isophorone	< 660	330	ug/kg	
2-Methylnaphthalene	< 660	330	ug/kg	
2-Methylphenol	< 660	330	ug/kg	
3 & 4-Methylphenol	< 660	330	ug/kg	
Naphthalene	< 660	330	ug/kg	
2-Nitroaniline	< 3,200	1600	ug/kg	
3-Nitroaniline	< 3,200	1600	ug/kg	
4-Nitroaniline	< 3,200	1600	ug/kg	
Nitrobenzene	< 520	260	ug/kg	
2-Nitrophenol	< 3,200	1600	ug/kg	
4-Nitrophenol	< 3,200	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 180	90	ug/kg	
n-Nitrosodimethylamine	< 660	330	ug/kg	
n-Nitrosodiphenylamine	< 660	330	ug/kg	
Pentachlorophenol	< 660	330	ug/kg	
Phenanthrene	< 660	330	ug/kg	
Phenol	< 660	330	ug/kg	
Pyrene	< 660	330	ug/kg	
Pyridine	< 660	330	ug/kg	
1,2,4-Trichlorobenzene	< 660	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO #19 IL 38

Sample ID: 1627V2-4-02 0-3

Sample No: 18-7651-002

Date Collected: 12/21/18

Time Collected: 10:30

Date Received: 12/21/18

Date Reported: 01/04/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 01/03/19		Preparation Date: 12/26/18		
2,4,5-Trichlorophenol	< 660	330	ug/kg	
2,4,6-Trichlorophenol	< 660	330	ug/kg	
Total Metals				
Method: 6010C		Preparation Method 3050B		
Analysis Date: 12/27/18		Preparation Date: 12/26/18		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.9	1.0	mg/kg	
Barium	79.3	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	0.5	0.5	mg/kg	
Calcium	7,420	50	mg/kg	
Chromium	17.0	0.5	mg/kg	
Cobalt	10.2	0.5	mg/kg	
Copper	15.8	0.5	mg/kg	
Iron	18,500	5.0	mg/kg	
Lead	30.8	0.5	mg/kg	
Magnesium	5,290	50	mg/kg	
Manganese	556	0.5	mg/kg	
Nickel	17.3	0.5	mg/kg	
Potassium	2,700	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	568	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	28.0	1.0	mg/kg	
Zinc	47.6	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 12/26/18				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2				
Method: 9045D 2004				
Analysis Date: 12/26/18 11:25				
pH @ 25°C, 1:2	8.37		Units	
TCLP Extraction				
Method: 1311				
Analysis Date: 12/26/18				
TCLP Extraction	Complete			



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO #19 IL 38
Sample ID: 1627V2-4-02 0-3
Sample No: 18-7651-002

Date Collected: 12/21/18
Time Collected: 10:30
Date Received: 12/21/18
Date Reported: 01/04/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311		Method: 6010C		
Analysis Date: 12/28/18		Preparation Method 3010A		
		Preparation Date: 12/27/18		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	0.2	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: 12/28/18

Mercury	< 0.0005	0.0005	mg/L
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SPLP Extraction

Method: 1312

Analysis Date: 12/26/18

SPLP Metals Extraction

Complete

SPLP Metals Method 1312

Method: 6010C

Analysis Date: 12/28/18

Preparation Method 3010A

Preparation Date: 12/28/18

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	0.027	0.005	mg/L
Cobalt	< 0.1	0.1	mg/L
Copper	0.024	0.005	mg/L
Iron	23.8	0.1	mg/L
Lead	0.020	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



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Client: HUFF & HUFF INC.

Project ID: IDOT WO #19 IL 38

Sample ID: 1627V2-4-02 0-3

Sample No: 18-7651-002

Date Collected: 12/21/18

Time Collected: 10:30

Date Received: 12/21/18

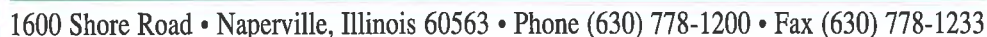
Date Reported: 01/04/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		
Analysis Date: 12/28/18		Preparation Method 3010A		
		Preparation Date: 12/28/18		
Zinc	< 0.1	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 12/28/18				
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: 96.2	86	117
5035A/8260B	d8-Toluene (Surr)	%R: 93.8	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 98.2	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R: 91	59	131
8270C	2-Fluorobiphenyl (Surr)	%R: 71.6	45	112
8270C	2-Fluorophenol (Surr)	%R: 51.4	41	84
8270C	d14-Terphenyl (Surr)	%R: 73.5	56	120
8270C	d5-Nitrobenzene (Surr)	%R: 66.4	35	105
8270C	Phenol-d5 (surr)	%R: 57.7	50	100



Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 12/21/18				
Total Solids	79.97		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/02/19				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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IL ELAP / NELAC Accreditation # 100292

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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO #19 IL 38

Sample ID: 1627V2-11-01 0-3

Sample No: 18-7651-003

Date Collected: 12/21/18

Time Collected: 10:14

Date Received: 12/21/18

Date Reported: 01/04/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/02/19				
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: 01/03/19		Preparation Date: 12/26/18		
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO #19 IL 38
Sample ID: 1627V2-11-01 0-3
Sample No: 18-7651-003

Date Collected: 12/21/18
Time Collected: 10:14
Date Received: 12/21/18
Date Reported: 01/04/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		
Analysis Date: 01/03/19		Preparation Method 3540C		
		Preparation Date: 12/26/18		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO #19 IL 38
Sample ID: 1627V2-11-01 0-3
Sample No: 18-7651-003

Date Collected: 12/21/18
Time Collected: 10:14
Date Received: 12/21/18
Date Reported: 01/04/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 01/03/19		Preparation Date: 12/26/18		
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: 12/27/18		Preparation Date: 12/26/18		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.9	1.0	mg/kg	
Barium	68.4	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	0.7	0.5	mg/kg	
Calcium	5,530	50	mg/kg	
Chromium	17.4	0.5	mg/kg	
Cobalt	7.2	0.5	mg/kg	
Copper	16.7	0.5	mg/kg	
Iron	17,500	5.0	mg/kg	
Lead	41.2	0.5	mg/kg	
Magnesium	4,750	50	mg/kg	
Manganese	310	0.5	mg/kg	
Nickel	17.7	0.5	mg/kg	
Potassium	2,700	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	2,920	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	27.7	1.0	mg/kg	
Zinc	56.3	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 12/26/18				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2				
Method: 9045D 2004				
Analysis Date: 12/26/18 11:25				
pH @ 25°C, 1:2	8.55		Units	
TCLP Extraction				
Method: 1311				
Analysis Date: 12/26/18				
TCLP Extraction	Complete			



**First
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IL ELAP / NELAC Accreditation # 100292
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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO #19 IL 38
Sample ID: 1627V2-11-01 0-3
Sample No: 18-7651-003

Date Collected: 12/21/18
Time Collected: 10:14
Date Received: 12/21/18
Date Reported: 01/04/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311		Method: 6010C		
Analysis Date: 12/28/18		Preparation Method 3010A		
		Preparation Date: 12/27/18		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	0.091	0.005	mg/L	
Manganese	9.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	0.015	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: 12/28/18				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction		Method: 1312		
Analysis Date: 12/26/18				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		
Analysis Date: 12/28/18		Preparation Method 3010A		
		Preparation Date: 12/28/18		
Arsenic	0.012	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	0.047	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.061	0.005	mg/L	
Iron	46.6	0.1	mg/L	
Lead	0.611	0.005	mg/L	
Manganese	0.9	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO #19 IL 38

Sample ID: 1627V2-11-01 0-3

Sample No: 18-7651-003

Date Collected: 12/21/18

Time Collected: 10:14

Date Received: 12/21/18

Date Reported: 01/04/19

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: 12/28/18 Preparation Date: 12/28/18				
Zinc	0.2	0.1	mg/L	
SPLP Mercury Method 1312 Method: 7470A				
Analysis Date: 12/28/18				
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: 92.4	86	117
5035A/8260B	d8-Toluene (Surr)	%R: 92.4	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 92	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R: 108.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R: 73.4	45	112
8270C	2-Fluorophenol (Surr)	%R: 50	41	84
8270C	d14-Terphenyl (Surr)	%R: 82.5	56	120
8270C	d5-Nitrobenzene (Surr)	%R: 58	35	105
8270C	Phenol-d5 (surr)	%R: 60.4	50	100



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO #19 IL 38
Sample ID: 1627V2-11-02 0-3
Sample No: 18-7651-004

Date Collected: 12/21/18
Time Collected: 10:19
Date Received: 12/21/18
Date Reported: 01/04/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total Method: 2540B				
Analysis Date: 12/21/18				
Total Solids	80.99		%	
Volatile Organic Compounds Method: 5035A/8260B				
Analysis Date: 01/02/19				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO #19 IL 38

Sample ID: 1627V2-11-02 0-3

Sample No: 18-7651-004

Date Collected: 12/21/18

Time Collected: 10:19

Date Received: 12/21/18

Date Reported: 01/04/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/02/19				
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: 01/03/19		Preparation Date: 12/26/18		
Acenaphthene	< 660	330	ug/kg	
Acenaphthylene	< 660	330	ug/kg	
Anthracene	< 660	330	ug/kg	
Benzidine	< 660	330	ug/kg	
Benzo(a)anthracene	552	330	ug/kg	J
Benzo(a)pyrene	652	90	ug/kg	
Benzo(b)fluoranthene	581	330	ug/kg	J
Benzo(k)fluoranthene	687	330	ug/kg	
Benzo(ghi)perylene	409	330	ug/kg	J
Benzoic acid	< 660	330	ug/kg	
Benzyl alcohol	< 660	330	ug/kg	
bis(2-Chloroethoxy)methane	< 660	330	ug/kg	
bis(2-Chloroethyl)ether	< 660	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 660	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 660	330	ug/kg	
4-Bromophenyl phenyl ether	< 660	330	ug/kg	
Butyl benzyl phthalate	< 660	330	ug/kg	
Carbazole	< 660	330	ug/kg	
4-Chloroaniline	< 660	330	ug/kg	
4-Chloro-3-methylphenol	< 660	330	ug/kg	
2-Chloronaphthalene	< 660	330	ug/kg	
2-Chlorophenol	< 660	330	ug/kg	
4-Chlorophenyl phenyl ether	< 660	330	ug/kg	
Chrysene	612	330	ug/kg	J
Dibenzo(a,h)anthracene	110	90	ug/kg	J
Dibenzofuran	< 660	330	ug/kg	
1,2-Dichlorobenzene	< 660	330	ug/kg	
1,3-Dichlorobenzene	< 660	330	ug/kg	
1,4-Dichlorobenzene	< 660	330	ug/kg	
3,3'-Dichlorobenzidine	< 1,320	660	ug/kg	
2,4-Dichlorophenol	< 660	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO #19 IL 38

Sample ID: 1627V2-11-02 0-3

Sample No: 18-7651-004

Date Collected: 12/21/18

Time Collected: 10:19

Date Received: 12/21/18

Date Reported: 01/04/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 01/03/19		Preparation Date: 12/26/18		
Diethyl phthalate	< 660	330	ug/kg	
2,4-Dimethylphenol	< 660	330	ug/kg	
Dimethyl phthalate	< 660	330	ug/kg	
Di-n-butyl phthalate	< 660	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 3,200	1600	ug/kg	
2,4-Dinitrophenol	< 3,200	1600	ug/kg	
2,4-Dinitrotoluene	< 500	250	ug/kg	
2,6-Dinitrotoluene	< 520	260	ug/kg	
Di-n-octylphthalate	< 660	330	ug/kg	
Fluoranthene	1,180	330	ug/kg	
Fluorene	< 660	330	ug/kg	
Hexachlorobenzene	< 660	330	ug/kg	
Hexachlorobutadiene	< 660	330	ug/kg	
Hexachlorocyclopentadiene	< 660	330	ug/kg	
Hexachloroethane	< 660	330	ug/kg	
Indeno(1,2,3-cd)pyrene	442	330	ug/kg	J
Isophorone	< 660	330	ug/kg	
2-Methylnaphthalene	< 660	330	ug/kg	
2-Methylphenol	< 660	330	ug/kg	
3 & 4-Methylphenol	< 660	330	ug/kg	
Naphthalene	< 660	330	ug/kg	
2-Nitroaniline	< 3,200	1600	ug/kg	
3-Nitroaniline	< 3,200	1600	ug/kg	
4-Nitroaniline	< 3,200	1600	ug/kg	
Nitrobenzene	< 520	260	ug/kg	
2-Nitrophenol	< 3,200	1600	ug/kg	
4-Nitrophenol	< 3,200	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 180	90	ug/kg	
n-Nitrosodimethylamine	< 660	330	ug/kg	
n-Nitrosodiphenylamine	< 660	330	ug/kg	
Pentachlorophenol	< 660	330	ug/kg	
Phenanthrene	428	330	ug/kg	J
Phenol	< 660	330	ug/kg	
Pyrene	965	330	ug/kg	
Pyridine	< 660	330	ug/kg	
1,2,4-Trichlorobenzene	< 660	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO #19 IL 38
Sample ID: 1627V2-11-02 0-3
Sample No: 18-7651-004

Date Collected: 12/21/18
Time Collected: 10:19
Date Received: 12/21/18
Date Reported: 01/04/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds Method: 8270C Preparation Method 3540C				
Analysis Date: 01/03/19 Preparation Date: 12/26/18				
2,4,5-Trichlorophenol	< 660	330	ug/kg	
2,4,6-Trichlorophenol	< 660	330	ug/kg	
Total Metals Method: 6010C Preparation Method 3050B				
Analysis Date: 12/27/18 Preparation Date: 12/26/18				
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.9	1.0	mg/kg	
Barium	83.9	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	0.6	0.5	mg/kg	
Calcium	26,400	50	mg/kg	
Chromium	16.1	0.5	mg/kg	
Cobalt	6.3	0.5	mg/kg	
Copper	21.7	0.5	mg/kg	
Iron	15,600	5.0	mg/kg	
Lead	96.7	0.5	mg/kg	
Magnesium	16,300	50	mg/kg	
Manganese	405	0.5	mg/kg	
Nickel	14.0	0.5	mg/kg	
Potassium	2,400	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	887	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	23.1	1.0	mg/kg	
Zinc	68.3	1.0	mg/kg	
Total Mercury Method: 7471B				
Analysis Date: 12/26/18				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D 2004				
Analysis Date: 12/26/18 11:25				
pH @ 25°C, 1:2	8.80		Units	
TCLP Extraction Method: 1311				
Analysis Date: 12/26/18				
TCLP Extraction	Complete			



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO #19 IL 38
Sample ID: 1627V2-11-02 0-3
Sample No: 18-7651-004

Date Collected: 12/21/18
Time Collected: 10:19
Date Received: 12/21/18
Date Reported: 01/04/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 12/28/18		Preparation Date: 12/27/18		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	0.3	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: 12/28/18				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 12/26/18				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A				
Analysis Date: 12/28/18		Preparation Date: 12/28/18		
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	0.038	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.029	0.005	mg/L	
Iron	29.8	0.1	mg/L	
Lead	0.069	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	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO #19 IL 38

Sample ID: 1627V2-11-02 0-3

Sample No: 18-7651-004

Date Collected: 12/21/18

Time Collected: 10:19

Date Received: 12/21/18

Date Reported: 01/04/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312 Analysis Date: 12/28/18	Method: 6010C	Preparation Method 3010A Preparation Date: 12/28/18		
Zinc	0.1	0.1	mg/L	
SPLP Mercury Method 1312 Analysis Date: 12/28/18	Method: 7470A			
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: 94.8	86	117
5035A/8260B	d8-Toluene (Surr)	%R: 93.2	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 98	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R: 100.3	59	131
8270C	2-Fluorobiphenyl (Surr)	%R: 75.7	45	112
8270C	2-Fluorophenol (Surr)	%R: 52.1	41	84
8270C	d14-Terphenyl (Surr)	%R: 74.7	56	120
8270C	d5-Nitrobenzene (Surr)	%R: 71.1	35	105
8270C	Phenol-d5 (surr)	%R: 60.7	50	100



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO #19 Geneva
Sample ID: 1627U2-16-01 (0-2)
Sample No: 18-7722-002

Date Collected: 12/28/18
Time Collected: 8:53
Date Received: 12/28/18
Date Reported: 01/08/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total Method: 2540B				
Analysis Date: 01/03/19				
Total Solids	77.76		%	
Volatile Organic Compounds Method: 5035A/8260B				
Analysis Date: 01/03/19				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO #19 Geneva
Sample ID: 1627U2-16-01 (0-2)
Sample No: 18-7722-002

Date Collected: 12/28/18
Time Collected: 8:53
Date Received: 12/28/18
Date Reported: 01/08/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/03/19				
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: 01/04/19		Preparation Date: 01/03/19		
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



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IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO #19 Geneva
Sample ID: 1627U2-16-01 (0-2)
Sample No: 18-7722-002

Date Collected: 12/28/18
Time Collected: 8:53
Date Received: 12/28/18
Date Reported: 01/08/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		
Analysis Date: 01/04/19		Preparation Method 3540C		
		Preparation Date: 01/03/19		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO #19 Geneva
Sample ID: 1627U2-16-01 (0-2)
Sample No: 18-7722-002

Date Collected: 12/28/18
Time Collected: 8:53
Date Received: 12/28/18
Date Reported: 01/08/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 01/04/19		Preparation Date: 01/03/19		
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: 01/03/19		Preparation Date: 01/02/19		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.5	1.0	mg/kg	
Barium	126	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	9,160	50	mg/kg	
Chromium	16.0	0.5	mg/kg	
Cobalt	8.1	0.5	mg/kg	
Copper	15.6	0.5	mg/kg	
Iron	16,300	5.0	mg/kg	
Lead	15.6	0.5	mg/kg	
Magnesium	4,300	50	mg/kg	
Manganese	548	0.5	mg/kg	
Nickel	17.0	0.5	mg/kg	
Potassium	978	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	941	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	29.3	1.0	mg/kg	
Zinc	46.6	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 01/07/19				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2				
Method: 9045D 2004				
Analysis Date: 01/02/19 13:45				
pH @ 25°C, 1:2	8.64		Units	
TCLP Extraction				
Method: 1311				
Analysis Date: 01/02/19				
TCLP Extraction	Complete			



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO #19 Geneva
Sample ID: 1627U2-16-01 (0-2)
Sample No: 18-7722-002

Date Collected: 12/28/18
Time Collected: 8:53
Date Received: 12/28/18
Date Reported: 01/08/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311		Method: 6010C		
Analysis Date: 01/03/19		Preparation Method 3010A		
		Preparation Date: 01/03/19		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	0.022	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	
TCLP Mercury Method 1311		Method: 7470A		
Analysis Date: 01/07/19				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction		Method: 1312		
Analysis Date: 01/02/19				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		
Analysis Date: 01/04/19		Preparation Method 3010A		
		Preparation Date: 01/04/19		
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	0.035	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.023	0.005	mg/L	
Iron	31.6	0.1	mg/L	
Lead	0.015	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	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO #19 Geneva
Sample ID: 1627U2-16-01 (0-2)
Sample No: 18-7722-002

Date Collected: 12/28/18
Time Collected: 8:53
Date Received: 12/28/18
Date Reported: 01/08/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		
Analysis Date: 01/04/19		Preparation Method 3010A		
		Preparation Date: 01/04/19		
Zinc	0.1	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 01/07/19				
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: 92.6	86	117
5035A/8260B	d8-Toluene (Surr)	%R: 92	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 92	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R: 104.6	59	131
8270C	2-Fluorobiphenyl (Surr)	%R: 68	45	112
8270C	2-Fluorophenol (Surr)	%R: 49.7	41	84
8270C	d14-Terphenyl (Surr)	%R: 84.7	56	120
8270C	d5-Nitrobenzene (Surr)	%R: 65.2	35	105
8270C	Phenol-d5 (surr)	%R: 59.4	50	100



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO #19 Geneva
Sample ID: 1627U2-18-03 (0-3)
Sample No: 18-7722-001

Date Collected: 12/28/18
Time Collected: 8:50
Date Received: 12/28/18
Date Reported: 01/08/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total Method: 2540B				
Analysis Date: 01/03/19				
Total Solids	83.29		%	
Volatile Organic Compounds Method: 5035A/8260B				
Analysis Date: 01/03/19				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO #19 Geneva
Sample ID: 1627U2-18-03 (0-3)
Sample No: 18-7722-001

Date Collected: 12/28/18
Time Collected: 8:50
Date Received: 12/28/18
Date Reported: 01/08/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/03/19				
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: 01/04/19				
Preparation Date: 01/03/19				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO #19 Geneva
Sample ID: 1627U2-18-03 (0-3)
Sample No: 18-7722-001

Date Collected: 12/28/18
Time Collected: 8:50
Date Received: 12/28/18
Date Reported: 01/08/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 01/04/19		Preparation Date: 01/03/19		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO #19 Geneva
Sample ID: 1627U2-18-03 (0-3)
Sample No: 18-7722-001

Date Collected: 12/28/18
Time Collected: 8:50
Date Received: 12/28/18
Date Reported: 01/08/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 01/04/19		Preparation Date: 01/03/19		
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: 01/03/19		Preparation Date: 01/02/19		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.4	1.0	mg/kg	
Barium	54.2	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	19,600	50	mg/kg	
Chromium	14.2	0.5	mg/kg	
Cobalt	6.5	0.5	mg/kg	
Copper	16.9	0.5	mg/kg	
Iron	15,400	5.0	mg/kg	
Lead	25.0	0.5	mg/kg	
Magnesium	12,100	50	mg/kg	
Manganese	379	0.5	mg/kg	
Nickel	16.7	0.5	mg/kg	
Potassium	3,070	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	461	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	21.4	1.0	mg/kg	
Zinc	41.0	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 01/07/19				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2				
Method: 9045D 2004				
Analysis Date: 01/02/19 13:45				
pH @ 25°C, 1:2	8.67		Units	
TCLP Extraction				
Method: 1311				
Analysis Date: 01/02/19				
TCLP Extraction	Complete			



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Sample ID: 1627U2-18-03 (0-3)
Sample No: 18-7722-001

Date Collected: 12/28/18
Time Collected: 8:50
Date Received: 12/28/18
Date Reported: 01/08/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311		Method: 6010C		
Analysis Date: 01/03/19		Preparation Method 3010A		
		Preparation Date: 01/03/19		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	0.024	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: 01/07/19

Mercury	< 0.0005	0.0005	mg/L
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SPLP Extraction **Method: 1312**

Analysis Date: 01/02/19

SPLP Metals Extraction Complete

SPLP Metals Method 1312 **Method: 6010C** **Preparation Method 3010A**
Analysis Date: 01/04/19 Preparation Date: 01/04/19

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	0.023	0.005	mg/L
Cobalt	< 0.1	0.1	mg/L
Copper	0.023	0.005	mg/L
Iron	23.6	0.1	mg/L
Lead	0.015	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



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO #19 Geneva
Sample ID: 1627U2-18-03 (0-3)
Sample No: 18-7722-001

Date Collected: 12/28/18
Time Collected: 8:50
Date Received: 12/28/18
Date Reported: 01/08/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		
Analysis Date: 01/04/19		Preparation Method 3010A		
		Preparation Date: 01/04/19		
Zinc	< 0.1	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 01/07/19				
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: 96.5	86	117
5035A/8260B	d8-Toluene (Surr)	%R: 93.7	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 95.7	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R: 118.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R: 79.8	45	112
8270C	2-Fluorophenol (Surr)	%R: 52.1	41	84
8270C	d14-Terphenyl (Surr)	%R: 97.9	56	120
8270C	d5-Nitrobenzene (Surr)	%R: 76.1	35	105
8270C	Phenol-d5 (surr)	%R: 65.9	50	100



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO #19 IL 38
Sample ID: 1627V2-23-01 0-2
Sample No: 18-7651-010

Date Collected: 12/21/18
Time Collected: 9:32
Date Received: 12/21/18
Date Reported: 01/04/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total Method: 2540B				
Analysis Date: 12/21/18				
Total Solids	85.75		%	
Volatile Organic Compounds Method: 5035A/8260B				
Analysis Date: 01/02/19				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO #19 IL 38

Sample ID: 1627V2-23-01 0-2

Sample No: 18-7651-010

Date Collected: 12/21/18

Time Collected: 9:32

Date Received: 12/21/18

Date Reported: 01/04/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/02/19				
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: 01/03/19		Preparation Date: 12/26/18		
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO #19 IL 38

Sample ID: 1627V2-23-01 0-2

Sample No: 18-7651-010

Date Collected: 12/21/18

Time Collected: 9:32

Date Received: 12/21/18

Date Reported: 01/04/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 01/03/19		Preparation Date: 12/26/18		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO #19 IL 38
Sample ID: 1627V2-23-01 0-2
Sample No: 18-7651-010

Date Collected: 12/21/18
Time Collected: 9:32
Date Received: 12/21/18
Date Reported: 01/04/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 01/03/19		Preparation Date: 12/26/18		
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: 12/27/18		Preparation Date: 12/26/18		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	2.5	1.0	mg/kg	
Barium	35.9	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	100,000	50	mg/kg	
Chromium	9.1	0.5	mg/kg	
Cobalt	4.7	0.5	mg/kg	
Copper	9.8	0.5	mg/kg	
Iron	9,640	5.0	mg/kg	
Lead	34.0	0.5	mg/kg	
Magnesium	57,900	50	mg/kg	
Manganese	379	0.5	mg/kg	
Nickel	10.5	0.5	mg/kg	
Potassium	2,160	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.2	0.2	mg/kg	
Sodium	279	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	12.9	1.0	mg/kg	
Zinc	25.3	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 12/26/18				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2				
Method: 9045D 2004				
Analysis Date: 12/26/18 11:25				
pH @ 25°C, 1:2	8.50		Units	
TCLP Extraction				
Method: 1311				
Analysis Date: 12/26/18				
TCLP Extraction	Complete			



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO #19 IL 38

Sample ID: 1627V2-23-01 0-2

Sample No: 18-7651-010

Date Collected: 12/21/18

Time Collected: 9:32

Date Received: 12/21/18

Date Reported: 01/04/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311		Method: 6010C		
Analysis Date: 12/28/18		Preparation Method 3010A		
		Preparation Date: 12/27/18		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	0.018	0.005	mg/L	
Manganese	7.6	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	0.019	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: 12/28/18

Mercury	< 0.0005	0.0005	mg/L
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SPLP Extraction

Method: 1312

Analysis Date: 12/26/18

SPLP Metals Extraction	Complete
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SPLP Metals Method 1312

Method: 6010C

Analysis Date: 12/28/18

Preparation Method 3010A

Preparation Date: 12/28/18

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	0.025	0.005	mg/L
Cobalt	< 0.1	0.1	mg/L
Copper	0.033	0.005	mg/L
Iron	27.7	0.1	mg/L
Lead	0.014	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



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO #19 IL 38

Sample ID: 1627V2-23-01 0-2

Sample No: 18-7651-010

Date Collected: 12/21/18

Time Collected: 9:32

Date Received: 12/21/18

Date Reported: 01/04/19

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: 12/28/18 Preparation Date: 12/28/18				
Zinc	< 0.1	0.1	mg/L	
SPLP Mercury Method 1312 Method: 7470A				
Analysis Date: 12/28/18				
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: 94.8	86	117
5035A/8260B	d8-Toluene (Surr)	%R: 93.9	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 95.2	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R: 103.1	59	131
8270C	2-Fluorobiphenyl (Surr)	%R: 72.7	45	112
8270C	2-Fluorophenol (Surr)	%R: 42.8	41	84
8270C	d14-Terphenyl (Surr)	%R: 84.6	56	120
8270C	d5-Nitrobenzene (Surr)	%R: 62.7	35	105
8270C	Phenol-d5 (surr)	%R: 54.9	50	100



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO #19 IL 38
Sample ID: 1627V2-23-02 0-2
Sample No: 18-7651-011

Date Collected: 12/21/18
Time Collected: 9:35
Date Received: 12/21/18
Date Reported: 01/04/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total Method: 2540B				
Analysis Date: 12/21/18				
Total Solids	73.05		%	
Volatile Organic Compounds Method: 5035A/8260B				
Analysis Date: 01/02/19				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO #19 IL 38
Sample ID: 1627V2-23-02 0-2
Sample No: 18-7651-011

Date Collected: 12/21/18
Time Collected: 9:35
Date Received: 12/21/18
Date Reported: 01/04/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/02/19				
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: 01/03/19			Preparation Date: 12/26/18	
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	96	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO #19 IL 38
Sample ID: 1627V2-23-02 0-2
Sample No: 18-7651-011

Date Collected: 12/21/18
Time Collected: 9:35
Date Received: 12/21/18
Date Reported: 01/04/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		
Analysis Date: 01/03/19		Preparation Method 3540C		
		Preparation Date: 12/26/18		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



**First
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IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO #19 IL 38

Sample ID: 1627V2-23-02 0-2

Sample No: 18-7651-011

Date Collected: 12/21/18

Time Collected: 9:35

Date Received: 12/21/18

Date Reported: 01/04/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 01/03/19		Preparation Date: 12/26/18		
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: 12/27/18		Preparation Date: 12/26/18		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.4	1.0	mg/kg	
Barium	91.5	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	0.6	0.5	mg/kg	
Calcium	39,200	50	mg/kg	
Chromium	16.5	0.5	mg/kg	
Cobalt	11.2	0.5	mg/kg	
Copper	20.5	0.5	mg/kg	
Iron	15,900	5.0	mg/kg	
Lead	89.9	0.5	mg/kg	
Magnesium	24,100	50	mg/kg	
Manganese	751	0.5	mg/kg	
Nickel	16.8	0.5	mg/kg	
Potassium	3,150	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	162	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	25.4	1.0	mg/kg	
Zinc	66.9	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 12/26/18				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2				
Method: 9045D 2004				
Analysis Date: 12/26/18 11:25				
pH @ 25°C, 1:2	8.11		Units	
TCLP Extraction				
Method: 1311				
Analysis Date: 12/26/18				
TCLP Extraction	Complete			



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO #19 IL 38

Sample ID: 1627V2-23-02 0-2

Sample No: 18-7651-011

Date Collected: 12/21/18

Time Collected: 9:35

Date Received: 12/21/18

Date Reported: 01/04/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311		Method: 6010C		
Analysis Date: 12/28/18		Preparation Method 3010A		
		Preparation Date: 12/27/18		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	0.007	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: 12/28/18				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction		Method: 1312		
Analysis Date: 12/26/18				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		
Analysis Date: 12/28/18		Preparation Method 3010A		
		Preparation Date: 12/28/18		
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	0.010	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.015	0.005	mg/L	
Iron	6.7	0.1	mg/L	
Lead	0.063	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	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO #19 IL 38

Sample ID: 1627V2-23-02 0-2

Sample No: 18-7651-011

Date Collected: 12/21/18

Time Collected: 9:35

Date Received: 12/21/18

Date Reported: 01/04/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		
Analysis Date: 12/28/18		Preparation Method 3010A		
		Preparation Date: 12/28/18		
Zinc	< 0.1	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 12/28/18				
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: 92.2	86	117
5035A/8260B	d8-Toluene (Surr)	%R: 93.4	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 92.4	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R: 106	59	131
8270C	2-Fluorobiphenyl (Surr)	%R: 78.4	45	112
8270C	2-Fluorophenol (Surr)	%R: 44.9	41	84
8270C	d14-Terphenyl (Surr)	%R: 83.2	56	120
8270C	d5-Nitrobenzene (Surr)	%R: 68	35	105
8270C	Phenol-d5 (surr)	%R: 58.4	50	100



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-27-01 (0-4)

Sample No: 19-0092-001

Date Collected: 01/08/19

Time Collected: 9:27

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total				
Method: 2540B				
Analysis Date: 01/08/19				
Total Solids	81.79		%	
Volatile Organic Compounds				
Method: 5035A/8260B				
Analysis Date: 01/11/19				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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IL ELAP / NELAC Accreditation # 100292

Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-27-01 (0-4)

Sample No: 19-0092-001

Date Collected: 01/08/19

Time Collected: 9:27

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/11/19				
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: 01/10/19		Preparation Date: 01/09/19	
Acenaphthene	< 330	330	ug/kg
Acenaphthylene	< 330	330	ug/kg
Anthracene	< 330	330	ug/kg
Benzidine	< 330	330	ug/kg
Benzo(a)anthracene	< 330	330	ug/kg
Benzo(a)pyrene	< 90	90	ug/kg
Benzo(b)fluoranthene	< 330	330	ug/kg
Benzo(k)fluoranthene	< 330	330	ug/kg
Benzo(ghi)perylene	< 330	330	ug/kg
Benzoic acid	< 330	330	ug/kg
Benzyl alcohol	< 330	330	ug/kg
bis(2-Chloroethoxy)methane	< 330	330	ug/kg
bis(2-Chloroethyl)ether	< 330	330	ug/kg
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg
4-Bromophenyl phenyl ether	< 330	330	ug/kg
Butyl benzyl phthalate	< 330	330	ug/kg
Carbazole	< 330	330	ug/kg
4-Chloroaniline	< 330	330	ug/kg
4-Chloro-3-methylphenol	< 330	330	ug/kg
2-Chloronaphthalene	< 330	330	ug/kg
2-Chlorophenol	< 330	330	ug/kg
4-Chlorophenyl phenyl ether	< 330	330	ug/kg
Chrysene	< 330	330	ug/kg
Dibenzo(a,h)anthracene	< 90	90	ug/kg
Dibenzofuran	< 330	330	ug/kg
1,2-Dichlorobenzene	< 330	330	ug/kg
1,3-Dichlorobenzene	< 330	330	ug/kg
1,4-Dichlorobenzene	< 330	330	ug/kg
3,3'-Dichlorobenzidine	< 660	660	ug/kg
2,4-Dichlorophenol	< 330	330	ug/kg



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-27-01 (0-4)

Sample No: 19-0092-001

Date Collected: 01/08/19

Time Collected: 9:27

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 01/10/19		Preparation Date: 01/09/19		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-27-01 (0-4)

Sample No: 19-0092-001

Date Collected: 01/08/19

Time Collected: 9:27

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Analysis Date: 01/10/19	Method: 8270C	Preparation Method 3540C		
		Preparation Date: 01/09/19		
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals				
Analysis Date: 01/09/19	Method: 6010C	Preparation Method 3050B		
		Preparation Date: 01/09/19		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.5	1.0	mg/kg	
Barium	69.1	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	34,100	50	mg/kg	
Chromium	12.2	0.5	mg/kg	
Cobalt	5.6	0.5	mg/kg	
Copper	16.2	0.5	mg/kg	
Iron	14,900	5.0	mg/kg	
Lead	43.8	0.5	mg/kg	
Magnesium	21,100	50	mg/kg	
Manganese	373	0.5	mg/kg	
Nickel	13.8	0.5	mg/kg	
Potassium	1,180	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	811	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	23.4	1.0	mg/kg	
Zinc	88.0	1.0	mg/kg	
Total Mercury				
Analysis Date: 01/09/19	Method: 7471B			
Mercury	0.07	0.05	mg/kg	
pH @ 25°C, 1:2				
Analysis Date: 01/09/19 13:30	Method: 9045D 2004			
pH @ 25°C, 1:2	8.44		Units	
TCLP Extraction				
Analysis Date: 01/09/19	Method: 1311			
TCLP Extraction	Complete			



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-27-01 (0-4)

Sample No: 19-0092-001

Date Collected: 01/08/19

Time Collected: 9:27

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311		Method: 6010C		
Analysis Date: 01/11/19		Preparation Method 3010A		
		Preparation Date: 01/10/19		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	0.3	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: 01/11/19

Mercury	< 0.0005	0.0005	mg/L
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SPLP Extraction

Method: 1312

Analysis Date: 01/09/19

SPLP Metals Extraction	Complete
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SPLP Metals Method 1312

Method: 6010C

Analysis Date: 01/14/19

Preparation Method 3010A

Preparation Date: 01/11/19

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	0.031	0.005	mg/L
Cobalt	< 0.1	0.1	mg/L
Copper	0.030	0.005	mg/L
Iron	30.2	0.1	mg/L
Lead	0.056	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



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-27-01 (0-4)

Sample No: 19-0092-001

Date Collected: 01/08/19

Time Collected: 9:27

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		
Analysis Date: 01/14/19		Preparation Method 3010A		
		Preparation Date: 01/11/19		
Zinc	0.2	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 01/15/19				
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: 100.3	86	117
5035A/8260B	d8-Toluene (Surr)	%R: 99.4	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 97.7	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R: 100.3	59	131
8270C	2-Fluorobiphenyl (Surr)	%R: 75.6	45	112
8270C	2-Fluorophenol (Surr)	%R: 44.7	41	84
8270C	d14-Terphenyl (Surr)	%R: 88	56	120
8270C	d5-Nitrobenzene (Surr)	%R: 66.4	35	105
8270C	Phenol-d5 (surr)	%R: 57.6	50	100



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-27-02 (0-4)

Sample No: 19-0092-002

Date Collected: 01/08/19

Time Collected: 9:23

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total				
Method: 2540B				
Analysis Date: 01/08/19				
Total Solids	77.64		%	
Volatile Organic Compounds				
Method: 5035A/8260B				
Analysis Date: 01/11/19				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-27-02 (0-4)

Sample No: 19-0092-002

Date Collected: 01/08/19

Time Collected: 9:23

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/11/19				
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: 01/10/19		Preparation Date: 01/09/19	
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	172	90	ug/kg
Benzo(b)fluoranthene	< 330	330	ug/kg
Benzo(k)fluoranthene	< 330	330	ug/kg
Benzo(ghi)perylene	< 330	330	ug/kg
Benzoic acid	< 330	330	ug/kg
Benzyl alcohol	< 330	330	ug/kg
bis(2-Chloroethoxy)methane	< 330	330	ug/kg
bis(2-Chloroethyl)ether	< 330	330	ug/kg
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg
4-Bromophenyl phenyl ether	< 330	330	ug/kg
Butyl benzyl phthalate	< 330	330	ug/kg
Carbazole	< 330	330	ug/kg
4-Chloroaniline	< 330	330	ug/kg
4-Chloro-3-methylphenol	< 330	330	ug/kg
2-Chloronaphthalene	< 330	330	ug/kg
2-Chlorophenol	< 330	330	ug/kg
4-Chlorophenyl phenyl ether	< 330	330	ug/kg
Chrysene	< 330	330	ug/kg
Dibenzo(a,h)anthracene	< 90	90	ug/kg
Dibenzofuran	< 330	330	ug/kg
1,2-Dichlorobenzene	< 330	330	ug/kg
1,3-Dichlorobenzene	< 330	330	ug/kg
1,4-Dichlorobenzene	< 330	330	ug/kg
3,3'-Dichlorobenzidine	< 660	660	ug/kg
2,4-Dichlorophenol	< 330	330	ug/kg



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Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-27-02 (0-4)

Sample No: 19-0092-002

Date Collected: 01/08/19

Time Collected: 9:23

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 01/10/19		Preparation Date: 01/09/19		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-27-02 (0-4)

Sample No: 19-0092-002

Date Collected: 01/08/19

Time Collected: 9:23

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		
Analysis Date: 01/10/19		Preparation Method 3540C		
		Preparation Date: 01/09/19		
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		
Analysis Date: 01/09/19		Preparation Method 3050B		
		Preparation Date: 01/09/19		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.3	1.0	mg/kg	
Barium	104	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	5,130	50	mg/kg	
Chromium	13.5	0.5	mg/kg	
Cobalt	7.9	0.5	mg/kg	
Copper	15.8	0.5	mg/kg	
Iron	15,900	5.0	mg/kg	
Lead	73.3	0.5	mg/kg	
Magnesium	3,410	50	mg/kg	
Manganese	622	0.5	mg/kg	
Nickel	14.2	0.5	mg/kg	
Potassium	860	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	587	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	24.3	1.0	mg/kg	
Zinc	94.4	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 01/09/19				
Mercury	0.10	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 01/09/19 13:30				
pH @ 25°C, 1:2	8.30	Units		
TCLP Extraction		Method: 1311		
Analysis Date: 01/09/19				
TCLP Extraction	Complete			



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Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-27-02 (0-4)

Sample No: 19-0092-002

Date Collected: 01/08/19

Time Collected: 9:23

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311		Method: 6010C		
Analysis Date: 01/11/19		Preparation Method 3010A		
		Preparation Date: 01/10/19		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	0.006	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	
TCLP Mercury Method 1311		Method: 7470A		
Analysis Date: 01/11/19				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction		Method: 1312		
Analysis Date: 01/09/19				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		
Analysis Date: 01/14/19		Preparation Method 3010A		
		Preparation Date: 01/11/19		
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	0.030	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.046	0.005	mg/L	
Iron	30.7	0.1	mg/L	
Lead	0.063	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	



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Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-27-02 (0-4)

Sample No: 19-0092-002

Date Collected: 01/08/19

Time Collected: 9:23

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312 Analysis Date: 01/14/19	Method: 6010C	Preparation Method 3010A Preparation Date: 01/11/19		
Zinc	0.2	0.1	mg/L	
SPLP Mercury Method 1312 Analysis Date: 01/15/19	Method: 7470A			
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: 95.8	86	117
5035A/8260B	d8-Toluene (Surr)	%R: 97.8	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 90.9	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R: 119.9	59	131
8270C	2-Fluorobiphenyl (Surr)	%R: 81.8	45	112
8270C	2-Fluorophenol (Surr)	%R: 50.1	41	84
8270C	d14-Terphenyl (Surr)	%R: 90.2	56	120
8270C	d5-Nitrobenzene (Surr)	%R: 72.2	35	105
8270C	Phenol-d5 (surr)	%R: 64.1	50	100



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-DUP-02

Sample No: 19-0092-032

Date Collected: 01/08/19

Time Collected: 11:15

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total Method: 2540B				
Analysis Date: 01/08/19				
Total Solids	81.05		%	
Volatile Organic Compounds Method: 5035A/8260B				
Analysis Date: 01/11/19				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-DUP-02

Sample No: 19-0092-032

Date Collected: 01/08/19

Time Collected: 11:15

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/11/19				
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: 01/14/19		Preparation Date: 01/13/19		
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-DUP-02

Sample No: 19-0092-032

Date Collected: 01/08/19

Time Collected: 11:15

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 01/14/19		Preparation Date: 01/13/19		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-DUP-02

Sample No: 19-0092-032

Date Collected: 01/08/19

Time Collected: 11:15

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 01/14/19		Preparation Date: 01/13/19		
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: 01/10/19		Preparation Date: 01/09/19		
Antimony	1.1	1.0	mg/kg	
Arsenic	4.6	1.0	mg/kg	
Barium	74.8	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	24,600	50	mg/kg	
Chromium	13.2	0.5	mg/kg	
Cobalt	5.7	0.5	mg/kg	
Copper	15.9	0.5	mg/kg	
Iron	14,700	5.0	mg/kg	
Lead	30.3	0.5	mg/kg	
Magnesium	14,100	50	mg/kg	
Manganese	269	0.5	mg/kg	
Nickel	14.1	0.5	mg/kg	
Potassium	1,210	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	771	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	22.9	1.0	mg/kg	
Zinc	51.0	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 01/09/19				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2				
Method: 9045D 2004				
Analysis Date: 01/10/19 14:00				
pH @ 25°C, 1:2	8.30		Units	
TCLP Extraction				
Method: 1311				
Analysis Date: 01/09/19				
TCLP Extraction	Complete			



**First
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IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-DUP-02

Sample No: 19-0092-032

Date Collected: 01/08/19

Time Collected: 11:15

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311		Method: 6010C		
Analysis Date: 01/11/19		Preparation Method 3010A		
		Preparation Date: 01/10/19		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	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	
TCLP Mercury Method 1311		Method: 7470A		
Analysis Date: 01/11/19				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction		Method: 1312		
Analysis Date: 01/09/19				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		
Analysis Date: 01/14/19		Preparation Method 3010A		
		Preparation Date: 01/11/19		
Arsenic	0.035	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	0.168	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.137	0.005	mg/L	
Iron	163	0.1	mg/L	
Lead	0.146	0.005	mg/L	
Manganese	1.1	0.1	mg/L	
Nickel	0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	0.005	0.005	mg/L	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-DUP-02

Sample No: 19-0092-032

Date Collected: 01/08/19

Time Collected: 11:15

Date Received: 01/08/19

Date Reported: 01/17/19

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: 01/14/19 Preparation Date: 01/11/19				
Zinc	0.5	0.1	mg/L	
SPLP Mercury Method 1312 Method: 7470A				
Analysis Date: 01/15/19				
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: 100.1	86	117
5035A/8260B	d8-Toluene (Surr)	%R: 99.8	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 93.2	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R: 126.3	59	131
8270C	2-Fluorobiphenyl (Surr)	%R: 76.8	45	112
8270C	2-Fluorophenol (Surr)	%R: 51.3	41	84
8270C	d14-Terphenyl (Surr)	%R: 95.7	56	120
8270C	d5-Nitrobenzene (Surr)	%R: 72.6	35	105
8270C	Phenol-d5 (surr)	%R: 65.3	50	100



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-27-03 (0-4)

Sample No: 19-0092-003

Date Collected: 01/08/19

Time Collected: 9:20

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total				
Method: 2540B				
Analysis Date: 01/08/19				
Total Solids	79.10		%	
Volatile Organic Compounds				
Method: 5035A/8260B				
Analysis Date: 01/11/19				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-27-03 (0-4)

Sample No: 19-0092-003

Date Collected: 01/08/19

Time Collected: 9:20

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/11/19				
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: 01/10/19			Preparation Date: 01/09/19

Acenaphthene	< 330	330	ug/kg
Acenaphthylene	< 330	330	ug/kg
Anthracene	< 330	330	ug/kg
Benidine	< 330	330	ug/kg
Benzo(a)anthracene	< 330	330	ug/kg
Benzo(a)pyrene	92	90	ug/kg
Benzo(b)fluoranthene	< 330	330	ug/kg
Benzo(k)fluoranthene	< 330	330	ug/kg
Benzo(ghi)perylene	< 330	330	ug/kg
Benzoic acid	< 330	330	ug/kg
Benzyl alcohol	< 330	330	ug/kg
bis(2-Chloroethoxy)methane	< 330	330	ug/kg
bis(2-Chloroethyl)ether	< 330	330	ug/kg
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg
4-Bromophenyl phenyl ether	< 330	330	ug/kg
Butyl benzyl phthalate	< 330	330	ug/kg
Carbazole	< 330	330	ug/kg
4-Chloroaniline	< 330	330	ug/kg
4-Chloro-3-methylphenol	< 330	330	ug/kg
2-Chloronaphthalene	< 330	330	ug/kg
2-Chlorophenol	< 330	330	ug/kg
4-Chlorophenyl phenyl ether	< 330	330	ug/kg
Chrysene	< 330	330	ug/kg
Dibenzo(a,h)anthracene	< 90	90	ug/kg
Dibenzofuran	< 330	330	ug/kg
1,2-Dichlorobenzene	< 330	330	ug/kg
1,3-Dichlorobenzene	< 330	330	ug/kg
1,4-Dichlorobenzene	< 330	330	ug/kg
3,3'-Dichlorobenzidine	< 660	660	ug/kg
2,4-Dichlorophenol	< 330	330	ug/kg



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-27-03 (0-4)

Sample No: 19-0092-003

Date Collected: 01/08/19

Time Collected: 9:20

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 01/10/19		Preparation Date: 01/09/19		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-27-03 (0-4)

Sample No: 19-0092-003

Date Collected: 01/08/19

Time Collected: 9:20

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 01/10/19		Preparation Date: 01/09/19		
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: 01/09/19		Preparation Date: 01/09/19		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.7	1.0	mg/kg	
Barium	101	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	26,200	50	mg/kg	
Chromium	14.9	0.5	mg/kg	
Cobalt	7.2	0.5	mg/kg	
Copper	24.6	0.5	mg/kg	
Iron	15,500	5.0	mg/kg	
Lead	88.2	0.5	mg/kg	
Magnesium	15,600	50	mg/kg	
Manganese	525	0.5	mg/kg	
Nickel	15.9	0.5	mg/kg	
Potassium	851	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	297	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	26.4	1.0	mg/kg	
Zinc	104	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 01/09/19				
Mercury	0.07	0.05	mg/kg	
pH @ 25°C, 1:2				
Method: 9045D 2004				
Analysis Date: 01/09/19 13:30				
pH @ 25°C, 1:2	7.61		Units	
TCLP Extraction				
Method: 1311				
Analysis Date: 01/09/19				
TCLP Extraction	Complete			



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-27-03 (0-4)

Sample No: 19-0092-003

Date Collected: 01/08/19

Time Collected: 9:20

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311		Method: 6010C		
Analysis Date: 01/11/19		Preparation Method 3010A		
		Preparation Date: 01/10/19		
Arsenic	< 0.010	0.010	mg/L	
Barium	1.1	1.0	mg/L	
Beryllium	< 1.00	1.0	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	0.054	0.005	mg/L	
Manganese	11.5	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.2	0.1	mg/L	
TCLP Mercury Method 1311		Method: 7470A		
Analysis Date: 01/11/19				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction		Method: 1312		
Analysis Date: 01/09/19				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		
Analysis Date: 01/14/19		Preparation Method 3010A		
		Preparation Date: 01/11/19		
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	0.025	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.046	0.005	mg/L	
Iron	22.5	0.1	mg/L	
Lead	0.147	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	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-27-03 (0-4)

Sample No: 19-0092-003

Date Collected: 01/08/19

Time Collected: 9:20

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		
Analysis Date: 01/14/19		Preparation Method 3010A		
		Preparation Date: 01/11/19		
Zinc	0.1	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 01/15/19				
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: 99.9	86	117
5035A/8260B	d8-Toluene (Surr)	%R: 99.8	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 96.6	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R: 126.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R: 83.2	45	112
8270C	2-Fluorophenol (Surr)	%R: 55.8	41	84
8270C	d14-Terphenyl (Surr)	%R: 94	56	120
8270C	d5-Nitrobenzene (Surr)	%R: 65.3	35	105
8270C	Phenol-d5 (surr)	%R: 68.4	50	100



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-27-04 (0-4)

Sample No: 19-0092-004

Date Collected: 01/08/19

Time Collected: 9:15

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total	Method: 2540B			
Analysis Date: 01/08/19				
Total Solids	88.74		%	

Volatile Organic Compounds **Method: 5035A/8260B**
Analysis Date: 01/11/19

Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-27-04 (0-4)

Sample No: 19-0092-004

Date Collected: 01/08/19

Time Collected: 9:15

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/11/19				
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: 01/10/19		Preparation Date: 01/09/19	
Acenaphthene	< 330	330	ug/kg
Acenaphthylene	< 330	330	ug/kg
Anthracene	< 330	330	ug/kg
Benzidine	< 330	330	ug/kg
Benzo(a)anthracene	< 330	330	ug/kg
Benzo(a)pyrene	< 90	90	ug/kg
Benzo(b)fluoranthene	< 330	330	ug/kg
Benzo(k)fluoranthene	< 330	330	ug/kg
Benzo(ghi)perylene	< 330	330	ug/kg
Benzoic acid	< 330	330	ug/kg
Benzyl alcohol	< 330	330	ug/kg
bis(2-Chloroethoxy)methane	< 330	330	ug/kg
bis(2-Chloroethyl)ether	< 330	330	ug/kg
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg
4-Bromophenyl phenyl ether	< 330	330	ug/kg
Butyl benzyl phthalate	< 330	330	ug/kg
Carbazole	< 330	330	ug/kg
4-Chloroaniline	< 330	330	ug/kg
4-Chloro-3-methylphenol	< 330	330	ug/kg
2-Chloronaphthalene	< 330	330	ug/kg
2-Chlorophenol	< 330	330	ug/kg
4-Chlorophenyl phenyl ether	< 330	330	ug/kg
Chrysene	< 330	330	ug/kg
Dibenzo(a,h)anthracene	< 90	90	ug/kg
Dibenzofuran	< 330	330	ug/kg
1,2-Dichlorobenzene	< 330	330	ug/kg
1,3-Dichlorobenzene	< 330	330	ug/kg
1,4-Dichlorobenzene	< 330	330	ug/kg
3,3'-Dichlorobenzidine	< 660	660	ug/kg
2,4-Dichlorophenol	< 330	330	ug/kg



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IL ELAP / NELAC Accreditation # 100292

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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT-WO19
Sample ID: 1627V2-27-04 (0-4)
Sample No: 19-0092-004

Date Collected: 01/08/19
Time Collected: 9:15
Date Received: 01/08/19
Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 01/10/19		Preparation Date: 01/09/19		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-27-04 (0-4)

Sample No: 19-0092-004

Date Collected: 01/08/19

Time Collected: 9:15

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 01/10/19		Preparation Date: 01/09/19		
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: 01/09/19		Preparation Date: 01/09/19		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.5	1.0	mg/kg	
Barium	24.8	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	69,300	50	mg/kg	
Chromium	10.2	0.5	mg/kg	
Cobalt	6.9	0.5	mg/kg	
Copper	19.0	0.5	mg/kg	
Iron	14,300	5.0	mg/kg	
Lead	9.1	0.5	mg/kg	
Magnesium	39,000	50	mg/kg	
Manganese	369	0.5	mg/kg	
Nickel	17.1	0.5	mg/kg	
Potassium	844	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	457	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	17.3	1.0	mg/kg	
Zinc	40.6	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 01/09/19				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2				
Method: 9045D 2004				
Analysis Date: 01/09/19 13:30				
pH @ 25°C, 1:2	8.89		Units	
TCLP Extraction				
Method: 1311				
Analysis Date: 01/09/19				
TCLP Extraction	Complete			



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-27-04 (0-4)

Sample No: 19-0092-004

Date Collected: 01/08/19

Time Collected: 9:15

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311		Method: 6010C		
Analysis Date: 01/15/19		Preparation Method 3010A		
		Preparation Date: 01/15/19		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.4	0.1	mg/L	
Lead	0.010	0.005	mg/L	
Manganese	5.9	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	0.011	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: 01/15/19

Mercury	< 0.0005	0.0005	mg/L
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SPLP Extraction

Method: 1312

Analysis Date: 01/09/19

SPLP Metals Extraction	Complete
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SPLP Metals Method 1312

Method: 6010C

Analysis Date: 01/14/19

Preparation Method 3010A

Preparation Date: 01/11/19

Arsenic	0.025	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	0.079	0.005	mg/L
Cobalt	< 0.1	0.1	mg/L
Copper	0.102	0.005	mg/L
Iron	82.8	0.1	mg/L
Lead	0.036	0.005	mg/L
Manganese	0.5	0.1	mg/L
Nickel	< 0.1	0.1	mg/L
Selenium	< 0.010	0.010	mg/L
Silver	< 0.005	0.005	mg/L



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-27-04 (0-4)

Sample No: 19-0092-004

Date Collected: 01/08/19

Time Collected: 9:15

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		
Analysis Date: 01/14/19		Preparation Method 3010A		
		Preparation Date: 01/11/19		
Zinc	0.3	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 01/15/19				
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: 98.2	86	117
5035A/8260B	d8-Toluene (Surr)	%R: 98.8	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 92.4	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R: 125.2	59	131
8270C	2-Fluorobiphenyl (Surr)	%R: 80.7	45	112
8270C	2-Fluorophenol (Surr)	%R: 50.9	41	84
8270C	d14-Terphenyl (Surr)	%R: 88.9	56	120
8270C	d5-Nitrobenzene (Surr)	%R: 68.8	35	105
8270C	Phenol-d5 (surr)	%R: 62.4	50	100



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-28-01 (0-3)

Sample No: 19-0092-005

Date Collected: 01/08/19

Time Collected: 9:31

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total				
Method: 2540B				
Analysis Date: 01/08/19				
Total Solids	81.11		%	
Volatile Organic Compounds				
Method: 5035A/8260B				
Analysis Date: 01/11/19				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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IL ELAP / NELAC Accreditation # 100292

Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-28-01 (0-3)

Sample No: 19-0092-005

Date Collected: 01/08/19

Time Collected: 9:31

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/11/19				
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: 01/10/19		Preparation Date: 01/09/19	
Acenaphthene	< 330	330	ug/kg
Acenaphthylene	< 330	330	ug/kg
Anthracene	< 330	330	ug/kg
Benzidine	< 330	330	ug/kg
Benzo(a)anthracene	< 330	330	ug/kg
Benzo(a)pyrene	< 90	90	ug/kg
Benzo(b)fluoranthene	< 330	330	ug/kg
Benzo(k)fluoranthene	< 330	330	ug/kg
Benzo(ghi)perylene	< 330	330	ug/kg
Benzoic acid	< 330	330	ug/kg
Benzyl alcohol	< 330	330	ug/kg
bis(2-Chloroethoxy)methane	< 330	330	ug/kg
bis(2-Chloroethyl)ether	< 330	330	ug/kg
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg
4-Bromophenyl phenyl ether	< 330	330	ug/kg
Butyl benzyl phthalate	< 330	330	ug/kg
Carbazole	< 330	330	ug/kg
4-Chloroaniline	< 330	330	ug/kg
4-Chloro-3-methylphenol	< 330	330	ug/kg
2-Chloronaphthalene	< 330	330	ug/kg
2-Chlorophenol	< 330	330	ug/kg
4-Chlorophenyl phenyl ether	< 330	330	ug/kg
Chrysene	< 330	330	ug/kg
Dibenzo(a,h)anthracene	< 90	90	ug/kg
Dibenzofuran	< 330	330	ug/kg
1,2-Dichlorobenzene	< 330	330	ug/kg
1,3-Dichlorobenzene	< 330	330	ug/kg
1,4-Dichlorobenzene	< 330	330	ug/kg
3,3'-Dichlorobenzidine	< 660	660	ug/kg
2,4-Dichlorophenol	< 330	330	ug/kg



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-28-01 (0-3)

Sample No: 19-0092-005

Date Collected: 01/08/19

Time Collected: 9:31

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 01/10/19		Preparation Date: 01/09/19		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-28-01 (0-3)

Sample No: 19-0092-005

Date Collected: 01/08/19

Time Collected: 9:31

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 01/10/19		Preparation Date: 01/09/19		
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: 01/09/19		Preparation Date: 01/09/19		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.3	1.0	mg/kg	
Barium	81.1	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	9,470	50	mg/kg	
Chromium	14.0	0.5	mg/kg	
Cobalt	6.6	0.5	mg/kg	
Copper	11.4	0.5	mg/kg	
Iron	16,300	5.0	mg/kg	
Lead	12.1	0.5	mg/kg	
Magnesium	6,530	50	mg/kg	
Manganese	254	0.5	mg/kg	
Nickel	13.5	0.5	mg/kg	
Potassium	975	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	753	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	29.0	1.0	mg/kg	
Zinc	42.7	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 01/09/19				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2				
Method: 9045D 2004				
Analysis Date: 01/09/19 13:30				
pH @ 25°C, 1:2	8.41		Units	
TCLP Extraction				
Method: 1311				
Analysis Date: 01/09/19				
TCLP Extraction	Complete			



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-28-01 (0-3)

Sample No: 19-0092-005

Date Collected: 01/08/19

Time Collected: 9:31

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311		Method: 6010C		
Analysis Date: 01/11/19		Preparation Method 3010A		
		Preparation Date: 01/10/19		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.009	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	1.0	0.1	mg/L	
Lead	0.007	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	
TCLP Mercury Method 1311		Method: 7470A		
Analysis Date: 01/11/19				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction		Method: 1312		
Analysis Date: 01/09/19				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		
Analysis Date: 01/14/19		Preparation Method 3010A		
		Preparation Date: 01/11/19		
Arsenic	0.017	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	0.061	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.055	0.005	mg/L	
Iron	58.8	0.1	mg/L	
Lead	0.046	0.005	mg/L	
Manganese	0.5	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-28-01 (0-3)

Sample No: 19-0092-005

Date Collected: 01/08/19

Time Collected: 9:31

Date Received: 01/08/19

Date Reported: 01/17/19

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: 01/14/19		Preparation Date: 01/11/19		
Zinc	0.3	0.1	mg/L	
SPLP Mercury Method 1312				
Method: 7470A				
Analysis Date: 01/15/19				
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: 100.7	86	117
5035A/8260B	d8-Toluene (Surr)	%R: 101	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 96.6	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R: 103.8	59	131
8270C	2-Fluorobiphenyl (Surr)	%R: 71.8	45	112
8270C	2-Fluorophenol (Surr)	%R: 44.8	41	84
8270C	d14-Terphenyl (Surr)	%R: 83.2	56	120
8270C	d5-Nitrobenzene (Surr)	%R: 64.2	35	105
8270C	Phenol-d5 (surr)	%R: 55.9	50	100



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-34-01 (0-4)

Sample No: 19-0092-018

Date Collected: 01/08/19

Time Collected: 11:03

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total	Method: 2540B			
Analysis Date: 01/08/19				
Total Solids	87.77		%	

Volatile Organic Compounds **Method: 5035A/8260B**
Analysis Date: 01/11/19

Acetone	< 200	200	ug/kg
Benzene	< 5.0	5.0	ug/kg
Bromodichloromethane	< 5.0	5.0	ug/kg
Bromoform	< 5.0	5.0	ug/kg
Bromomethane	< 10.0	10.0	ug/kg
2-Butanone (MEK)	< 100	100	ug/kg
Carbon disulfide	< 5.0	5.0	ug/kg
Carbon tetrachloride	< 5.0	5.0	ug/kg
Chlorobenzene	< 5.0	5.0	ug/kg
Chlorodibromomethane	< 5.0	5.0	ug/kg
Chloroethane	< 10.0	10.0	ug/kg
Chloroform	< 5.0	5.0	ug/kg
Chloromethane	< 10.0	10.0	ug/kg
1,1-Dichloroethane	< 5.0	5.0	ug/kg
1,2-Dichloroethane	< 5.0	5.0	ug/kg
1,1-Dichloroethene	< 5.0	5.0	ug/kg
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg
1,2-Dichloropropane	< 5.0	5.0	ug/kg
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg
Ethylbenzene	< 5.0	5.0	ug/kg
2-Hexanone	< 10.0	10.0	ug/kg
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg
Methylene chloride	< 20.0	20.0	ug/kg
Styrene	< 5.0	5.0	ug/kg
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg
Tetrachloroethene	< 5.0	5.0	ug/kg
Toluene	< 5.0	5.0	ug/kg
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg
Trichloroethene	< 5.0	5.0	ug/kg



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-34-01 (0-4)

Sample No: 19-0092-018

Date Collected: 01/08/19

Time Collected: 11:03

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds				
Method: 5035A/8260B				
Analysis Date: 01/11/19				
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: 01/11/19		Preparation Date: 01/09/19		
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT-WO19
Sample ID: 1627V2-34-01 (0-4)
Sample No: 19-0092-018

Date Collected: 01/08/19
Time Collected: 11:03
Date Received: 01/08/19
Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 01/11/19		Preparation Date: 01/09/19		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-34-01 (0-4)

Sample No: 19-0092-018

Date Collected: 01/08/19

Time Collected: 11:03

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 01/11/19		Preparation Date: 01/09/19		
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: 01/09/19		Preparation Date: 01/09/19		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.1	1.0	mg/kg	
Barium	29.5	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	75,800	50	mg/kg	
Chromium	8.4	0.5	mg/kg	
Cobalt	8.0	0.5	mg/kg	
Copper	14.4	0.5	mg/kg	
Iron	11,500	5.0	mg/kg	
Lead	6.3	0.5	mg/kg	
Magnesium	42,800	50	mg/kg	
Manganese	359	0.5	mg/kg	
Nickel	16.1	0.5	mg/kg	
Potassium	842	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	203	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	12.7	1.0	mg/kg	
Zinc	26.3	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 01/09/19				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2				
Method: 9045D 2004				
Analysis Date: 01/09/19 13:30				
pH @ 25°C, 1:2	8.41		Units	
TCLP Extraction				
Method: 1311				
Analysis Date: 01/09/19				
TCLP Extraction	Complete			



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-34-01 (0-4)

Sample No: 19-0092-018

Date Collected: 01/08/19

Time Collected: 11:03

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311		Method: 6010C		
Analysis Date: 01/15/19		Preparation Method 3010A		
		Preparation Date: 01/15/19		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	1.2	0.1	mg/L	
Lead	0.006	0.005	mg/L	
Manganese	6.7	0.1	mg/L	
Nickel	0.1	0.1	mg/L	
Selenium	0.012	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311		Method: 7470A		
Analysis Date: 01/15/19				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction		Method: 1312		
Analysis Date: 01/09/19				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		
Analysis Date: 01/14/19		Preparation Method 3010A		
		Preparation Date: 01/11/19		
Arsenic	0.016	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	0.042	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.065	0.005	mg/L	
Iron	49.2	0.1	mg/L	
Lead	0.017	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	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-34-01 (0-4)

Sample No: 19-0092-018

Date Collected: 01/08/19

Time Collected: 11:03

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		
Analysis Date: 01/14/19		Preparation Method 3010A		
		Preparation Date: 01/11/19		
Zinc	0.1	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 01/15/19				
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: 99.7	86	117
5035A/8260B	d8-Toluene (Surr)	%R: 99.4	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 94	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R: 120.7	59	131
8270C	2-Fluorobiphenyl (Surr)	%R: 71.2	45	112
8270C	2-Fluorophenol (Surr)	%R: 53.4	41	84
8270C	d14-Terphenyl (Surr)	%R: 84.3	56	120
8270C	d5-Nitrobenzene (Surr)	%R: 66.9	35	105
8270C	Phenol-d5 (surr)	%R: 63.3	50	100



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-DUP-04

Sample No: 19-0092-034

Date Collected: 01/08/19

Time Collected: 13:10

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total				
Method: 2540B				
Analysis Date: 01/08/19				
Total Solids	86.95		%	
Volatile Organic Compounds				
Method: 5035A/8260B				
Analysis Date: 01/11/19				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-DUP-04

Sample No: 19-0092-034

Date Collected: 01/08/19

Time Collected: 13:10

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/11/19				
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		
Analysis Date: 01/14/19		Preparation Method 3540C		
		Preparation Date: 01/13/19		
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzydine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-DUP-04

Sample No: 19-0092-034

Date Collected: 01/08/19

Time Collected: 13:10

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 01/14/19		Preparation Date: 01/13/19		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-DUP-04

Sample No: 19-0092-034

Date Collected: 01/08/19

Time Collected: 13:10

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Analysis Date: 01/14/19	Method: 8270C	Preparation Method 3540C	Preparation Date: 01/13/19	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals				
Analysis Date: 01/10/19	Method: 6010C	Preparation Method 3050B	Preparation Date: 01/09/19	
Antimony	1.2	1.0	mg/kg	
Arsenic	5.4	1.0	mg/kg	
Barium	26.6	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	75,100	50	mg/kg	
Chromium	12.0	0.5	mg/kg	
Cobalt	7.9	0.5	mg/kg	
Copper	19.3	0.5	mg/kg	
Iron	15,900	5.0	mg/kg	
Lead	9.2	0.5	mg/kg	
Magnesium	39,800	50	mg/kg	
Manganese	401	0.5	mg/kg	
Nickel	21.8	0.5	mg/kg	
Potassium	2,630	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	295	50	mg/kg	
Thallium	1.0	1.0	mg/kg	
Vanadium	16.7	1.0	mg/kg	
Zinc	63.8	1.0	mg/kg	
Total Mercury				
Analysis Date: 01/09/19	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2				
Analysis Date: 01/10/19 14:00	Method: 9045D 2004			
pH @ 25°C, 1:2	8.54		Units	
TCLP Extraction				
Analysis Date: 01/09/19	Method: 1311			
TCLP Extraction	Complete			



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-DUP-04

Sample No: 19-0092-034

Date Collected: 01/08/19

Time Collected: 13:10

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311		Method: 6010C		
Analysis Date: 01/11/19		Preparation Method 3010A		
		Preparation Date: 01/10/19		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.0	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311		Method: 7470A		
Analysis Date: 01/11/19				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction		Method: 1312		
Analysis Date: 01/09/19				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		
Analysis Date: 01/14/19		Preparation Method 3010A		
		Preparation Date: 01/11/19		
Arsenic	0.048	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	0.083	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.149	0.005	mg/L	
Iron	108	0.1	mg/L	
Lead	0.045	0.005	mg/L	
Manganese	0.6	0.1	mg/L	
Nickel	0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-DUP-04

Sample No: 19-0092-034

Date Collected: 01/08/19

Time Collected: 13:10

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		
Analysis Date: 01/14/19		Preparation Method 3010A		
		Preparation Date: 01/11/19		
Zinc	0.7	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 01/15/19				
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: 100	86	117
5035A/8260B	d8-Toluene (Surr)	%R: 99.9	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 94.3	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R: 134.8	59	131
8270C	2-Fluorobiphenyl (Surr)	%R: 79.3	45	112
8270C	2-Fluorophenol (Surr)	%R: 59.2	41	84
8270C	d14-Terphenyl (Surr)	%R: 99.1	56	120
8270C	d5-Nitrobenzene (Surr)	%R: 75.8	35	105
8270C	Phenol-d5 (surr)	%R: 69.9	50	100



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-34-01 (4-8)

Sample No: 19-0092-019

Date Collected: 01/08/19

Time Collected: 11:06

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total	Method: 2540B			
Analysis Date: 01/08/19				
Total Solids	83.13		%	

Volatile Organic Compounds **Method: 5035A/8260B**
Analysis Date: 01/11/19

Acetone	< 200	200	ug/kg
Benzene	< 5.0	5.0	ug/kg
Bromodichloromethane	< 5.0	5.0	ug/kg
Bromoform	< 5.0	5.0	ug/kg
Bromomethane	< 10.0	10.0	ug/kg
2-Butanone (MEK)	< 100	100	ug/kg
Carbon disulfide	< 5.0	5.0	ug/kg
Carbon tetrachloride	< 5.0	5.0	ug/kg
Chlorobenzene	< 5.0	5.0	ug/kg
Chlorodibromomethane	< 5.0	5.0	ug/kg
Chloroethane	< 10.0	10.0	ug/kg
Chloroform	< 5.0	5.0	ug/kg
Chloromethane	< 10.0	10.0	ug/kg
1,1-Dichloroethane	< 5.0	5.0	ug/kg
1,2-Dichloroethane	< 5.0	5.0	ug/kg
1,1-Dichloroethene	< 5.0	5.0	ug/kg
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg
1,2-Dichloropropane	< 5.0	5.0	ug/kg
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg
Ethylbenzene	< 5.0	5.0	ug/kg
2-Hexanone	< 10.0	10.0	ug/kg
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg
Methylene chloride	< 20.0	20.0	ug/kg
Styrene	< 5.0	5.0	ug/kg
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg
Tetrachloroethene	< 5.0	5.0	ug/kg
Toluene	< 5.0	5.0	ug/kg
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg
Trichloroethene	< 5.0	5.0	ug/kg



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-34-01 (4-8)

Sample No: 19-0092-019

Date Collected: 01/08/19

Time Collected: 11:06

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/11/19				
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: 01/11/19		Preparation Date: 01/10/19		
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-34-01 (4-8)

Sample No: 19-0092-019

Date Collected: 01/08/19

Time Collected: 11:06

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 01/11/19		Preparation Date: 01/10/19		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-34-01 (4-8)

Sample No: 19-0092-019

Date Collected: 01/08/19

Time Collected: 11:06

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 01/11/19		Preparation Date: 01/10/19		
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: 01/09/19		Preparation Date: 01/09/19		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.5	1.0	mg/kg	
Barium	46.1	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	70,800	50	mg/kg	
Chromium	10.6	0.5	mg/kg	
Cobalt	6.8	0.5	mg/kg	
Copper	15.3	0.5	mg/kg	
Iron	12,800	5.0	mg/kg	
Lead	13.8	0.5	mg/kg	
Magnesium	37,900	50	mg/kg	
Manganese	408	0.5	mg/kg	
Nickel	13.2	0.5	mg/kg	
Potassium	1,150	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	270	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	18.4	1.0	mg/kg	
Zinc	34.2	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 01/09/19				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2				
Method: 9045D 2004				
Analysis Date: 01/09/19 13:30				
pH @ 25°C, 1:2	8.37		Units	
TCLP Extraction				
Method: 1311				
Analysis Date: 01/09/19				
TCLP Extraction	Complete			



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-34-01 (4-8)

Sample No: 19-0092-019

Date Collected: 01/08/19

Time Collected: 11:06

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311		Method: 6010C		
Analysis Date: 01/11/19		Preparation Method 3010A		
		Preparation Date: 01/10/19		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	0.019	0.005	mg/L	
Manganese	9.0	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

TCLP Mercury Method 1311

Method: 7470A

Analysis Date: 01/11/19

Mercury	< 0.0005	0.0005	mg/L
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SPLP Extraction

Method: 1312

Analysis Date: 01/09/19

SPLP Metals Extraction	Complete
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SPLP Metals Method 1312

Method: 6010C

Analysis Date: 01/14/19

Preparation Method 3010A

Preparation Date: 01/11/19

Arsenic	0.033	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	0.101	0.005	mg/L
Cobalt	< 0.1	0.1	mg/L
Copper	0.148	0.005	mg/L
Iron	98.2	0.1	mg/L
Lead	0.266	0.005	mg/L
Manganese	3.5	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



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-34-01 (4-8)

Sample No: 19-0092-019

Date Collected: 01/08/19

Time Collected: 11:06

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312 Analysis Date: 01/14/19	Method: 6010C	Preparation Method 3010A Preparation Date: 01/11/19		
Zinc	0.4	0.1	mg/L	
SPLP Mercury Method 1312 Analysis Date: 01/15/19	Method: 7470A			
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:	99.2	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.6	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	90.8	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	112.7	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	63.8	45	112
8270C	2-Fluorophenol (Surr)	%R:	50.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	85.6	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	63.7	35	105
8270C	Phenol-d5 (surr)	%R:	59.7	50	100



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-39-01 (0-5)

Sample No: 19-0092-026

Date Collected: 01/08/19

Time Collected: 10:46

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total Method: 2540B				
Analysis Date: 01/08/19				
Total Solids	85.81		%	
Volatile Organic Compounds Method: 5035A/8260B				
Analysis Date: 01/11/19				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



**First
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IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT-WO19
Sample ID: 1627V2-39-01 (0-5)
Sample No: 19-0092-026

Date Collected: 01/08/19
Time Collected: 10:46
Date Received: 01/08/19
Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/11/19				
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: 01/11/19			Preparation Date: 01/10/19	
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-39-01 (0-5)

Sample No: 19-0092-026

Date Collected: 01/08/19

Time Collected: 10:46

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 01/11/19		Preparation Date: 01/10/19		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-39-01 (0-5)

Sample No: 19-0092-026

Date Collected: 01/08/19

Time Collected: 10:46

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 01/11/19		Preparation Date: 01/10/19		
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: 01/10/19		Preparation Date: 01/09/19		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.6	1.0	mg/kg	
Barium	107	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	88,500	50	mg/kg	
Chromium	8.7	0.5	mg/kg	
Cobalt	6.4	0.5	mg/kg	
Copper	18.7	0.5	mg/kg	
Iron	13,500	5.0	mg/kg	
Lead	12.2	0.5	mg/kg	
Magnesium	44,200	50	mg/kg	
Manganese	336	0.5	mg/kg	
Nickel	16.0	0.5	mg/kg	
Potassium	1,720	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	510	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	14.8	1.0	mg/kg	
Zinc	36.8	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 01/09/19				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2				
Method: 9045D 2004				
Analysis Date: 01/10/19 14:00				
pH @ 25°C, 1:2	8.99		Units	
TCLP Extraction				
Method: 1311				
Analysis Date: 01/09/19				
TCLP Extraction	Complete			



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-39-01 (0-5)

Sample No: 19-0092-026

Date Collected: 01/08/19

Time Collected: 10:46

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311		Method: 6010C		
Analysis Date: 01/11/19		Preparation Method 3010A		
		Preparation Date: 01/10/19		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	0.6	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: 01/11/19

Mercury	< 0.0005	0.0005	mg/L
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SPLP Extraction

Method: 1312

Analysis Date: 01/09/19

SPLP Metals Extraction	Complete
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SPLP Metals Method 1312

Method: 6010C

Analysis Date: 01/14/19

Preparation Method 3010A

Preparation Date: 01/11/19

Arsenic	0.026	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	0.047	0.005	mg/L
Cobalt	< 0.1	0.1	mg/L
Copper	0.083	0.005	mg/L
Iron	58.9	0.1	mg/L
Lead	0.041	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



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-39-01 (0-5)

Sample No: 19-0092-026

Date Collected: 01/08/19

Time Collected: 10:46

Date Received: 01/08/19

Date Reported: 01/17/19

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: 01/14/19 Preparation Date: 01/11/19				
Zinc	0.2	0.1	mg/L	
SPLP Mercury Method 1312 Method: 7470A				
Analysis Date: 01/15/19				
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: 100	86	117
5035A/8260B	d8-Toluene (Surr)	%R: 99.7	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 93.8	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R: 111.3	59	131
8270C	2-Fluorobiphenyl (Surr)	%R: 66.5	45	112
8270C	2-Fluorophenol (Surr)	%R: 51.6	41	84
8270C	d14-Terphenyl (Surr)	%R: 84.1	56	120
8270C	d5-Nitrobenzene (Surr)	%R: 62	35	105
8270C	Phenol-d5 (surr)	%R: 60.6	50	100



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT-WO19
Sample ID: 1627V2-39-01 (5-9)
Sample No: 19-0092-027

Date Collected: 01/08/19
Time Collected: 10:50
Date Received: 01/08/19
Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total Method: 2540B				
Analysis Date: 01/08/19				
Total Solids	84.14		%	
Volatile Organic Compounds Method: 5035A/8260B				
Analysis Date: 01/11/19				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-39-01 (5-9)

Sample No: 19-0092-027

Date Collected: 01/08/19

Time Collected: 10:50

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/11/19				
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: 01/11/19				Preparation Date: 01/10/19	
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(h)fluoranthene	< 330	330	ug/kg		
Benzo(k)fluoranthene	< 330	330	ug/kg		
Benzo(ghi)perylene	< 330	330	ug/kg		
Benzoic acid	< 330	330	ug/kg		
Benzyl alcohol	< 330	330	ug/kg		
bis(2-Chloroethoxy)methane	< 330	330	ug/kg		
bis(2-Chloroethyl)ether	< 330	330	ug/kg		
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg		
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg		
4-Bromophenyl phenyl ether	< 330	330	ug/kg		
Butyl benzyl phthalate	< 330	330	ug/kg		
Carbazole	< 330	330	ug/kg		
4-Chloroaniline	< 330	330	ug/kg		
4-Chloro-3-methylphenol	< 330	330	ug/kg		
2-Chloronaphthalene	< 330	330	ug/kg		
2-Chlorophenol	< 330	330	ug/kg		
4-Chlorophenyl phenyl ether	< 330	330	ug/kg		
Chrysene	< 330	330	ug/kg		
Dibenzo(a,h)anthracene	< 90	90	ug/kg		
Dibenzofuran	< 330	330	ug/kg		
1,2-Dichlorobenzene	< 330	330	ug/kg		
1,3-Dichlorobenzene	< 330	330	ug/kg		
1,4-Dichlorobenzene	< 330	330	ug/kg		
3,3'-Dichlorobenzidine	< 660	660	ug/kg		
2,4-Dichlorophenol	< 330	330	ug/kg		



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-39-01 (5-9)

Sample No: 19-0092-027

Date Collected: 01/08/19

Time Collected: 10:50

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 01/11/19		Preparation Date: 01/10/19		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT-WO19
Sample ID: 1627V2-39-01 (5-9)
Sample No: 19-0092-027

Date Collected: 01/08/19
Time Collected: 10:50
Date Received: 01/08/19
Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 01/11/19		Preparation Date: 01/10/19		
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: 01/10/19		Preparation Date: 01/09/19		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.4	1.0	mg/kg	
Barium	34.2	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	68,300	50	mg/kg	
Chromium	10.3	0.5	mg/kg	
Cobalt	6.0	0.5	mg/kg	
Copper	17.2	0.5	mg/kg	
Iron	13,900	5.0	mg/kg	
Lead	19.0	0.5	mg/kg	
Magnesium	36,200	50	mg/kg	
Manganese	332	0.5	mg/kg	
Nickel	14.6	0.5	mg/kg	
Potassium	1,100	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	533	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	17.9	1.0	mg/kg	
Zinc	36.6	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 01/09/19				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2				
Method: 9045D 2004				
Analysis Date: 01/10/19 14:00				
pH @ 25°C, 1:2	8.98		Units	
TCLP Extraction				
Method: 1311				
Analysis Date: 01/09/19				
TCLP Extraction	Complete			



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-39-01 (5-9)

Sample No: 19-0092-027

Date Collected: 01/08/19

Time Collected: 10:50

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311		Method: 6010C		
Analysis Date: 01/11/19		Preparation Method 3010A		
		Preparation Date: 01/10/19		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	0.5	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: 01/11/19				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction		Method: 1312		
Analysis Date: 01/09/19				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		
Analysis Date: 01/14/19		Preparation Method 3010A		
		Preparation Date: 01/11/19		
Arsenic	0.034	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	0.062	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.107	0.005	mg/L	
Iron	78.5	0.1	mg/L	
Lead	0.041	0.005	mg/L	
Manganese	0.5	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	



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IL ELAP / NELAC Accreditation # 100292

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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-39-01 (5-9)

Sample No: 19-0092-027

Date Collected: 01/08/19

Time Collected: 10:50

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		
Analysis Date: 01/14/19		Preparation Method 3010A		
		Preparation Date: 01/11/19		
Zinc	0.2	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 01/15/19				
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: 98.2	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 90.1	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R: 113.2	59	131
8270C	2-Fluorobiphenyl (Surr)	%R: 64.5	45	112
8270C	2-Fluorophenol (Surr)	%R: 49.9	41	84
8270C	d14-Terphenyl (Surr)	%R: 91.3	56	120
8270C	d5-Nitrobenzene (Surr)	%R: 60.5	35	105
8270C	Phenol-d5 (surr)	%R: 58	50	100



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-39-02 (0-5)

Sample No: 19-0092-028

Date Collected: 01/08/19

Time Collected: 10:37

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total	Method: 2540B			
Analysis Date: 01/08/19				
Total Solids	86.86		%	

Volatile Organic Compounds **Method: 5035A/8260B**
Analysis Date: 01/11/19

Acetone	< 200	200	ug/kg
Benzene	< 5.0	5.0	ug/kg
Bromodichloromethane	< 5.0	5.0	ug/kg
Bromoform	< 5.0	5.0	ug/kg
Bromomethane	< 10.0	10.0	ug/kg
2-Butanone (MEK)	< 100	100	ug/kg
Carbon disulfide	< 5.0	5.0	ug/kg
Carbon tetrachloride	< 5.0	5.0	ug/kg
Chlorobenzene	< 5.0	5.0	ug/kg
Chlorodibromomethane	< 5.0	5.0	ug/kg
Chloroethane	< 10.0	10.0	ug/kg
Chloroform	< 5.0	5.0	ug/kg
Chloromethane	< 10.0	10.0	ug/kg
1,1-Dichloroethane	< 5.0	5.0	ug/kg
1,2-Dichloroethane	< 5.0	5.0	ug/kg
1,1-Dichloroethene	< 5.0	5.0	ug/kg
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg
1,2-Dichloropropane	< 5.0	5.0	ug/kg
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg
Ethylbenzene	< 5.0	5.0	ug/kg
2-Hexanone	< 10.0	10.0	ug/kg
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg
Methylene chloride	< 20.0	20.0	ug/kg
Styrene	< 5.0	5.0	ug/kg
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg
Tetrachloroethene	< 5.0	5.0	ug/kg
Toluene	< 5.0	5.0	ug/kg
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg
Trichloroethene	< 5.0	5.0	ug/kg



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-39-02 (0-5)

Sample No: 19-0092-028

Date Collected: 01/08/19

Time Collected: 10:37

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/11/19				
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: 01/11/19			Preparation Date: 01/10/19	
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-39-02 (0-5)

Sample No: 19-0092-028

Date Collected: 01/08/19

Time Collected: 10:37

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 01/11/19		Preparation Date: 01/10/19		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-39-02 (0-5)

Sample No: 19-0092-028

Date Collected: 01/08/19

Time Collected: 10:37

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 01/11/19		Preparation Date: 01/10/19		
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: 01/10/19		Preparation Date: 01/09/19		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.0	1.0	mg/kg	
Barium	42.6	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	64,200	50	mg/kg	
Chromium	11.2	0.5	mg/kg	
Cobalt	7.2	0.5	mg/kg	
Copper	17.8	0.5	mg/kg	
Iron	15,500	5.0	mg/kg	
Lead	8.2	0.5	mg/kg	
Magnesium	37,900	50	mg/kg	
Manganese	370	0.5	mg/kg	
Nickel	18.4	0.5	mg/kg	
Potassium	1,870	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	533	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	17.4	1.0	mg/kg	
Zinc	36.0	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 01/09/19				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2				
Method: 9045D 2004				
Analysis Date: 01/10/19 14:00				
pH @ 25°C, 1:2	7.98		Units	
TCLP Extraction				
Method: 1311				
Analysis Date: 01/09/19				
TCLP Extraction	Complete			



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-39-02 (0-5)

Sample No: 19-0092-028

Date Collected: 01/08/19

Time Collected: 10:37

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311		Method: 6010C		
Analysis Date: 01/11/19		Preparation Method 3010A		
		Preparation Date: 01/10/19		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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: 01/11/19				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction		Method: 1312		
Analysis Date: 01/09/19				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		
Analysis Date: 01/14/19		Preparation Method 3010A		
		Preparation Date: 01/11/19		
Arsenic	0.017	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	0.050	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.064	0.005	mg/L	
Iron	58.7	0.1	mg/L	
Lead	0.019	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	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-39-02 (0-5)

Sample No: 19-0092-028

Date Collected: 01/08/19

Time Collected: 10:37

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312 Analysis Date: 01/14/19	Method: 6010C	Preparation Method 3010A Preparation Date: 01/11/19		
Zinc	0.2	0.1	mg/L	
SPLP Mercury Method 1312 Analysis Date: 01/15/19	Method: 7470A			
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: 100.1	86	117
5035A/8260B	d8-Toluene (Surr)	%R: 99.2	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 93.8	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R: 114.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R: 69.2	45	112
8270C	2-Fluorophenol (Surr)	%R: 48	41	84
8270C	d14-Terphenyl (Surr)	%R: 94.4	56	120
8270C	d5-Nitrobenzene (Surr)	%R: 61.7	35	105
8270C	Phenol-d5 (surr)	%R: 58.4	50	100



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-39-02 (5-9)

Sample No: 19-0092-029

Date Collected: 01/08/19

Time Collected: 10:40

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total				
Method: 2540B				
Analysis Date: 01/08/19				
Total Solids	87.24		%	
Volatile Organic Compounds				
Method: 5035A/8260B				
Analysis Date: 01/11/19				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT-WO19
Sample ID: 1627V2-39-02 (5-9)
Sample No: 19-0092-029

Date Collected: 01/08/19
Time Collected: 10:40
Date Received: 01/08/19
Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds	Method: 5035A/8260B			
Analysis Date: 01/11/19				
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: 01/11/19			Preparation Date: 01/10/19	
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzydine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



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IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-39-02 (5-9)

Sample No: 19-0092-029

Date Collected: 01/08/19

Time Collected: 10:40

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 01/11/19		Preparation Date: 01/10/19		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT-WO19
Sample ID: 1627V2-39-02 (5-9)
Sample No: 19-0092-029

Date Collected: 01/08/19
Time Collected: 10:40
Date Received: 01/08/19
Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 01/11/19		Preparation Date: 01/10/19		
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: 01/10/19		Preparation Date: 01/09/19		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.2	1.0	mg/kg	
Barium	20.5	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	65,600	50	mg/kg	
Chromium	9.3	0.5	mg/kg	
Cobalt	6.8	0.5	mg/kg	
Copper	15.2	0.5	mg/kg	
Iron	12,700	5.0	mg/kg	
Lead	7.4	0.5	mg/kg	
Magnesium	36,000	50	mg/kg	
Manganese	334	0.5	mg/kg	
Nickel	15.9	0.5	mg/kg	
Potassium	2,580	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	374	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	12.9	1.0	mg/kg	
Zinc	33.2	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 01/09/19				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2				
Method: 9045D 2004				
Analysis Date: 01/10/19 14:00				
pH @ 25°C, 1:2	8.98		Units	
TCLP Extraction				
Method: 1311				
Analysis Date: 01/09/19				
TCLP Extraction	Complete			



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-39-02 (5-9)

Sample No: 19-0092-029

Date Collected: 01/08/19

Time Collected: 10:40

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311		Method: 6010C		
Analysis Date: 01/11/19		Preparation Method 3010A		
		Preparation Date: 01/10/19		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	0.3	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.0	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

TCLP Mercury Method 1311

Method: 7470A

Analysis Date: 01/11/19

Mercury	< 0.0005	0.0005	mg/L
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SPLP Extraction

Method: 1312

Analysis Date: 01/09/19

SPLP Metals Extraction	Complete
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SPLP Metals Method 1312

Method: 6010C

Analysis Date: 01/14/19

Preparation Method 3010A

Preparation Date: 01/11/19

Arsenic	0.041	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	0.062	0.005	mg/L
Cobalt	< 0.1	0.1	mg/L
Copper	0.114	0.005	mg/L
Iron	92.2	0.1	mg/L
Lead	0.044	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



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-39-02 (5-9)

Sample No: 19-0092-029

Date Collected: 01/08/19

Time Collected: 10:40

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312 Analysis Date: 01/14/19	Method: 6010C	Preparation Method 3010A Preparation Date: 01/11/19		
Zinc	0.3	0.1	mg/L	
SPLP Mercury Method 1312 Analysis Date: 01/15/19	Method: 7470A			
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: 98.6	86	117
5035A/8260B	d8-Toluene (Surr)	%R: 99.1	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 89.7	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R: 114.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R: 72	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: 64	35	105
8270C	Phenol-d5 (surr)	%R: 61.5	50	100



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT-WO19
Sample ID: 1627V2-39-03 (0-5)
Sample No: 19-0092-030

Date Collected: 01/08/19
Time Collected: 10:20
Date Received: 01/08/19
Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total Method: 2540B				
Analysis Date: 01/08/19				
Total Solids	77.37		%	
Volatile Organic Compounds Method: 5035A/8260B				
Analysis Date: 01/11/19				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-39-03 (0-5)

Sample No: 19-0092-030

Date Collected: 01/08/19

Time Collected: 10:20

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/11/19				
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: 01/14/19		Preparation Date: 01/13/19		
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-39-03 (0-5)

Sample No: 19-0092-030

Date Collected: 01/08/19

Time Collected: 10:20

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 01/14/19		Preparation Date: 01/13/19		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-39-03 (0-5)

Sample No: 19-0092-030

Date Collected: 01/08/19

Time Collected: 10:20

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 01/14/19		Preparation Date: 01/13/19		
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: 01/10/19		Preparation Date: 01/09/19		
Antimony	1.5	1.0	mg/kg	
Arsenic	8.3	1.0	mg/kg	
Barium	113	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	3,080	50	mg/kg	
Chromium	19.3	0.5	mg/kg	
Cobalt	11.2	0.5	mg/kg	
Copper	15.3	0.5	mg/kg	
Iron	23,400	5.0	mg/kg	
Lead	15.8	0.5	mg/kg	
Magnesium	3,550	50	mg/kg	
Manganese	574	0.5	mg/kg	
Nickel	17.7	0.5	mg/kg	
Potassium	883	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	408	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	39.0	1.0	mg/kg	
Zinc	43.2	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 01/09/19				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2				
Method: 9045D 2004				
Analysis Date: 01/10/19 14:00				
pH @ 25°C, 1:2	7.46		Units	
TCLP Extraction				
Method: 1311				
Analysis Date: 01/09/19				
TCLP Extraction	Complete			



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-39-03 (0-5)

Sample No: 19-0092-030

Date Collected: 01/08/19

Time Collected: 10:20

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311		Method: 6010C		
Analysis Date: 01/11/19		Preparation Method 3010A		
		Preparation Date: 01/10/19		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.4	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	9.2	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: 01/11/19				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction		Method: 1312		
Analysis Date: 01/09/19				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		
Analysis Date: 01/14/19		Preparation Method 3010A		
		Preparation Date: 01/11/19		
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	0.036	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.030	0.005	mg/L	
Iron	34.7	0.1	mg/L	
Lead	0.014	0.005	mg/L	
Manganese	0.8	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-39-03 (0-5)

Sample No: 19-0092-030

Date Collected: 01/08/19

Time Collected: 10:20

Date Received: 01/08/19

Date Reported: 01/17/19

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: 01/14/19 Preparation Date: 01/11/19				
Zinc	< 0.1	0.1	mg/L	
SPLP Mercury Method 1312 Method: 7470A				
Analysis Date: 01/15/19				
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: 100.1	86	117
5035A/8260B	d8-Toluene (Surr)	%R: 99	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 93.2	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R: 115.3	59	131
8270C	2-Fluorobiphenyl (Surr)	%R: 66.7	45	112
8270C	2-Fluorophenol (Surr)	%R: 47.1	41	84
8270C	d14-Terphenyl (Surr)	%R: 88.8	56	120
8270C	d5-Nitrobenzene (Surr)	%R: 64	35	105
8270C	Phenol-d5 (surr)	%R: 61.4	50	100



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IL ELAP / NELAC Accreditation # 100292

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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT-WO19
Sample ID: 1627V2-39-03 (5-9)
Sample No: 19-0092-031

Date Collected: 01/08/19
Time Collected: 10:24
Date Received: 01/08/19
Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total Method: 2540B				
Analysis Date: 01/08/19				
Total Solids	86.73		%	
Volatile Organic Compounds Method: 5035A/8260B				
Analysis Date: 01/11/19				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-39-03 (5-9)

Sample No: 19-0092-031

Date Collected: 01/08/19

Time Collected: 10:24

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/11/19				
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: 01/14/19		Preparation Date: 01/13/19	
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(h)fluoranthene	< 330	330	ug/kg
Benzo(k)fluoranthene	< 330	330	ug/kg
Benzo(ghi)perylene	< 330	330	ug/kg
Benzoic acid	< 330	330	ug/kg
Benzyl alcohol	< 330	330	ug/kg
bis(2-Chloroethoxy)methane	< 330	330	ug/kg
bis(2-Chloroethyl)ether	< 330	330	ug/kg
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg
4-Bromophenyl phenyl ether	< 330	330	ug/kg
Butyl benzyl phthalate	< 330	330	ug/kg
Carbazole	< 330	330	ug/kg
4-Chloroaniline	< 330	330	ug/kg
4-Chloro-3-methylphenol	< 330	330	ug/kg
2-Chloronaphthalene	< 330	330	ug/kg
2-Chlorophenol	< 330	330	ug/kg
4-Chlorophenyl phenyl ether	< 330	330	ug/kg
Chrysene	< 330	330	ug/kg
Dibenzo(a,h)anthracene	< 90	90	ug/kg
Dibenzofuran	< 330	330	ug/kg
1,2-Dichlorobenzene	< 330	330	ug/kg
1,3-Dichlorobenzene	< 330	330	ug/kg
1,4-Dichlorobenzene	< 330	330	ug/kg
3,3'-Dichlorobenzidine	< 660	660	ug/kg
2,4-Dichlorophenol	< 330	330	ug/kg



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Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-39-03 (5-9)

Sample No: 19-0092-031

Date Collected: 01/08/19

Time Collected: 10:24

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 01/14/19		Preparation Date: 01/13/19		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-39-03 (5-9)

Sample No: 19-0092-031

Date Collected: 01/08/19

Time Collected: 10:24

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 01/14/19		Preparation Date: 01/13/19		
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: 01/10/19		Preparation Date: 01/09/19		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.7	1.0	mg/kg	
Barium	24.8	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	68,300	50	mg/kg	
Chromium	9.1	0.5	mg/kg	
Cobalt	6.9	0.5	mg/kg	
Copper	14.8	0.5	mg/kg	
Iron	12,700	5.0	mg/kg	
Lead	7.2	0.5	mg/kg	
Magnesium	34,800	50	mg/kg	
Manganese	319	0.5	mg/kg	
Nickel	16.3	0.5	mg/kg	
Potassium	2,060	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	206	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	13.1	1.0	mg/kg	
Zinc	31.4	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 01/09/19				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2				
Method: 9045D 2004				
Analysis Date: 01/10/19 14:00				
pH @ 25°C, 1:2	8.49		Units	
TCLP Extraction				
Method: 1311				
Analysis Date: 01/09/19				
TCLP Extraction	Complete			



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-39-03 (5-9)

Sample No: 19-0092-031

Date Collected: 01/08/19

Time Collected: 10:24

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311		Method: 6010C		
Analysis Date: 01/11/19		Preparation Method 3010A		
		Preparation Date: 01/10/19		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.011	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	8.0	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.9	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311		Method: 7470A		
Analysis Date: 01/11/19				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction		Method: 1312		
Analysis Date: 01/09/19				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		
Analysis Date: 01/14/19		Preparation Method 3010A		
		Preparation Date: 01/11/19		
Arsenic	0.043	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.075	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.134	0.005	mg/L	
Iron	98.7	0.1	mg/L	
Lead	0.040	0.005	mg/L	
Manganese	0.6	0.1	mg/L	
Nickel	0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-39-03 (5-9)

Sample No: 19-0092-031

Date Collected: 01/08/19

Time Collected: 10:24

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		
Analysis Date: 01/14/19		Preparation Method 3010A		
		Preparation Date: 01/11/19		
Zinc	0.4	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 01/15/19				
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: 98.5	86	117
5035A/8260B	d8-Toluene (Surr)	%R: 99.1	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 90.4	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R: 137.1	59	131
8270C	2-Fluorobiphenyl (Surr)	%R: 80	45	112
8270C	2-Fluorophenol (Surr)	%R: 59.2	41	84
8270C	d14-Terphenyl (Surr)	%R: 102.2	56	120
8270C	d5-Nitrobenzene (Surr)	%R: 77.6	35	105
8270C	Phenol-d5 (surr)	%R: 72.5	50	100



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-DUP-03

Sample No: 19-0092-033

Date Collected: 01/08/19

Time Collected: 12:45

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total	Method: 2540B			
Analysis Date: 01/08/19				
Total Solids	86.36		%	

Volatile Organic Compounds **Method: 5035A/8260B**
Analysis Date: 01/11/19

Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-DUP-03

Sample No: 19-0092-033

Date Collected: 01/08/19

Time Collected: 12:45

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds				
Method: 5035A/8260B				
Analysis Date: 01/11/19				
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				
Analysis Date: 01/14/19				
Preparation Method 3540C				
Preparation Date: 01/13/19				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-DUP-03

Sample No: 19-0092-033

Date Collected: 01/08/19

Time Collected: 12:45

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 01/14/19		Preparation Date: 01/13/19		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-DUP-03

Sample No: 19-0092-033

Date Collected: 01/08/19

Time Collected: 12:45

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Analysis Date: 01/14/19	Method: 8270C	Preparation Method 3540C		
		Preparation Date: 01/13/19		
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals				
Analysis Date: 01/10/19	Method: 6010C	Preparation Method 3050B		
		Preparation Date: 01/09/19		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.8	1.0	mg/kg	
Barium	22.8	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	82,900	50	mg/kg	
Chromium	11.4	0.5	mg/kg	
Cobalt	6.4	0.5	mg/kg	
Copper	15.8	0.5	mg/kg	
Iron	14,400	5.0	mg/kg	
Lead	7.8	0.5	mg/kg	
Magnesium	39,700	50	mg/kg	
Manganese	258	0.5	mg/kg	
Nickel	16.1	0.5	mg/kg	
Potassium	2,480	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	211	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	16.1	1.0	mg/kg	
Zinc	36.9	1.0	mg/kg	
Total Mercury				
Analysis Date: 01/09/19	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2				
Analysis Date: 01/10/19 14:00	Method: 9045D 2004			
pH @ 25°C, 1:2	8.65		Units	
TCLP Extraction				
Analysis Date: 01/09/19	Method: 1311			
TCLP Extraction	Complete			



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-DUP-03

Sample No: 19-0092-033

Date Collected: 01/08/19

Time Collected: 12:45

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311		Method: 6010C		
Analysis Date: 01/11/19		Preparation Method 3010A		
		Preparation Date: 01/10/19		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	1.4	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: 01/11/19

Mercury	< 0.0005	0.0005	mg/L
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SPLP Extraction

Method: 1312

Analysis Date: 01/09/19

SPLP Metals Extraction	Complete
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SPLP Metals Method 1312

Method: 6010C

Analysis Date: 01/14/19

Preparation Method 3010A

Preparation Date: 01/11/19

Arsenic	0.026	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	0.047	0.005	mg/L
Cobalt	< 0.1	0.1	mg/L
Copper	0.076	0.005	mg/L
Iron	62.6	0.1	mg/L
Lead	0.028	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



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT-WO19

Sample ID: 1627V2-DUP-03

Sample No: 19-0092-033

Date Collected: 01/08/19

Time Collected: 12:45

Date Received: 01/08/19

Date Reported: 01/17/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		
Analysis Date: 01/14/19		Preparation Method 3010A		
		Preparation Date: 01/11/19		
Zinc	0.2	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 01/15/19				
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: 99	86	117
5035A/8260B	d8-Toluene (Surr)	%R: 99	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 89.6	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R: 121.4	59	131
8270C	2-Fluorobiphenyl (Surr)	%R: 69	45	112
8270C	2-Fluorophenol (Surr)	%R: 52.8	41	84
8270C	d14-Terphenyl (Surr)	%R: 96.2	56	120
8270C	d5-Nitrobenzene (Surr)	%R: 69.1	35	105
8270C	Phenol-d5 (surr)	%R: 64.4	50	100



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-42-01 (0-2)

Sample No: 19-0138-003

Date Collected: 01/09/19

Time Collected: 9:17

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total Method: 2540B				
Analysis Date: 01/09/19				
Total Solids	84.54		%	
Volatile Organic Compounds Method: 5035A/8260B				
Analysis Date: 01/14/19				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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IL ELAP / NELAC Accreditation # 100292

Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-42-01 (0-2)

Sample No: 19-0138-003

Date Collected: 01/09/19

Time Collected: 9:17

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/14/19				
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: 01/14/19		Preparation Date: 01/13/19		
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



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IL ELAP / NELAC Accreditation # 100292

Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO-19
Sample ID: 1627V2-42-01 (0-2)
Sample No: 19-0138-003

Date Collected: 01/09/19
Time Collected: 9:17
Date Received: 01/09/19
Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 01/14/19		Preparation Date: 01/13/19		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-42-01 (0-2)

Sample No: 19-0138-003

Date Collected: 01/09/19

Time Collected: 9:17

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 01/14/19		Preparation Date: 01/13/19		
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: 01/10/19		Preparation Date: 01/10/19		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.6	1.0	mg/kg	
Barium	47.9	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	55,300	50	mg/kg	
Chromium	11.8	0.5	mg/kg	
Cobalt	7.0	0.5	mg/kg	
Copper	19.4	0.5	mg/kg	
Iron	14,200	5.0	mg/kg	
Lead	10.8	0.5	mg/kg	
Magnesium	33,400	50	mg/kg	
Manganese	543	0.5	mg/kg	
Nickel	19.1	0.5	mg/kg	
Potassium	1,770	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	491	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	16.8	1.0	mg/kg	
Zinc	36.5	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 01/10/19				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2				
Method: 9045D 2004				
Analysis Date: 01/14/19 13:00				
pH @ 25°C, 1:2	8.70		Units	
TCLP Extraction				
Method: 1311				
Analysis Date: 01/11/19				
TCLP Extraction	Complete			



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IL ELAP / NELAC Accreditation # 100292

Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-42-01 (0-2)

Sample No: 19-0138-003

Date Collected: 01/09/19

Time Collected: 9:17

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 01/16/19		Preparation Date: 01/15/19		
Arsenic	< 0.010	0.010	mg/L	
Barium	1.1	1.0	mg/L	
Beryllium	< 1.00	1.0	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	1.8	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 01/15/19				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 01/11/19				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A				
Analysis Date: 01/15/19		Preparation Date: 01/14/19		
Arsenic	0.032	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	0.100	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.149	0.005	mg/L	
Iron	108	0.1	mg/L	
Lead	0.040	0.005	mg/L	
Manganese	0.7	0.1	mg/L	
Nickel	0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-42-01 (0-2)

Sample No: 19-0138-003

Date Collected: 01/09/19

Time Collected: 9:17

Date Received: 01/09/19

Date Reported: 01/21/19

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: 01/15/19		Preparation Date: 01/14/19		
Zinc	0.3	0.1	mg/L	
SPLP Mercury Method 1312	Method: 7470A			
Analysis Date: 01/17/19				
Mercury	< 0.0005	0.0005	mg/L	

Sample QC Summary:		Surrogate Recovery		%R Limits	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	100.4	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.1	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	90.8	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	121.2	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	73.7	45	112
8270C	2-Fluorophenol (Surr)	%R:	55	41	84
8270C	d14-Terphenyl (Surr)	%R:	90.4	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	70.2	35	105
8270C	Phenol-d5 (surr)	%R:	65.9	50	100

Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 01/09/19

Project ID: IDOT WO-19

Time Collected: 12:24

Sample ID: 1627V2-43-01 (0-5)

Date Received: 01/09/19

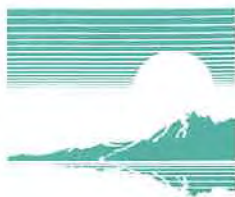
Sample No: 19-0138-004

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total	Method: 2540B			
Analysis Date: 01/09/19				
Total Solids	85.45		%	

Volatile Organic Compounds		Method: 5035A/8260B	
Analysis Date: 01/14/19			
Acetone	< 200	200	ug/kg
Benzene	< 5.0	5.0	ug/kg
Bromodichloromethane	< 5.0	5.0	ug/kg
Bromoform	< 5.0	5.0	ug/kg
Bromomethane	< 10.0	10.0	ug/kg
2-Butanone (MEK)	< 100	100	ug/kg
Carbon disulfide	< 5.0	5.0	ug/kg
Carbon tetrachloride	< 5.0	5.0	ug/kg
Chlorobenzene	< 5.0	5.0	ug/kg
Chlorodibromomethane	< 5.0	5.0	ug/kg
Chloroethane	< 10.0	10.0	ug/kg
Chloroform	< 5.0	5.0	ug/kg
Chloromethane	< 10.0	10.0	ug/kg
1,1-Dichloroethane	< 5.0	5.0	ug/kg
1,2-Dichloroethane	< 5.0	5.0	ug/kg
1,1-Dichloroethene	< 5.0	5.0	ug/kg
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg
1,2-Dichloropropane	< 5.0	5.0	ug/kg
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg
Ethylbenzene	< 5.0	5.0	ug/kg
2-Hexanone	< 10.0	10.0	ug/kg
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg
Methylene chloride	< 20.0	20.0	ug/kg
Styrene	< 5.0	5.0	ug/kg
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg
Tetrachloroethene	< 5.0	5.0	ug/kg
Toluene	< 5.0	5.0	ug/kg
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg
Trichloroethene	< 5.0	5.0	ug/kg



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IL ELAP / NELAC Accreditation # 100292

Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-43-01 (0-5)

Sample No: 19-0138-004

Date Collected: 01/09/19

Time Collected: 12:24

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/14/19				
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: 01/14/19		Preparation Date: 01/13/19		
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-43-01 (0-5)

Sample No: 19-0138-004

Date Collected: 01/09/19

Time Collected: 12:24

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 01/14/19		Preparation Date: 01/13/19		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-43-01 (0-5)

Sample No: 19-0138-004

Date Collected: 01/09/19

Time Collected: 12:24

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 01/14/19		Preparation Date: 01/13/19		
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: 01/10/19		Preparation Date: 01/10/19		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.1	1.0	mg/kg	
Barium	48.2	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	71,100	50	mg/kg	
Chromium	9.9	0.5	mg/kg	
Cobalt	7.1	0.5	mg/kg	
Copper	17.4	0.5	mg/kg	
Iron	15,200	5.0	mg/kg	
Lead	10.9	0.5	mg/kg	
Magnesium	38,900	50	mg/kg	
Manganese	364	0.5	mg/kg	
Nickel	17.3	0.5	mg/kg	
Potassium	1,710	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	1,670	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	15.9	1.0	mg/kg	
Zinc	49.6	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 01/10/19				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2				
Method: 9045D 2004				
Analysis Date: 01/14/19 13:00				
pH @ 25°C, 1:2	8.89		Units	
TCLP Extraction				
Method: 1311				
Analysis Date: 01/11/19				
TCLP Extraction	Complete			



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-43-01 (0-5)

Sample No: 19-0138-004

Date Collected: 01/09/19

Time Collected: 12:24

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 01/16/19		Preparation Date: 01/15/19		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	0.3	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	5.2	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: 01/15/19				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 01/11/19				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A				
Analysis Date: 01/15/19		Preparation Date: 01/14/19		
Arsenic	0.071	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	0.113	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.206	0.005	mg/L	
Iron	166	0.1	mg/L	
Lead	0.080	0.005	mg/L	
Manganese	1.9	0.1	mg/L	
Nickel	0.2	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-43-01 (0-5)

Sample No: 19-0138-004

Date Collected: 01/09/19

Time Collected: 12:24

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312 Analysis Date: 01/15/19	Method: 6010C	Preparation Method 3010A Preparation Date: 01/14/19		
Zinc	0.6	0.1	mg/L	

SPLP Mercury Method 1312 Analysis Date: 01/17/19	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	

Sample QC Summary:		Surrogate Recovery		%R Limits	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98.7	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.4	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	87.6	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	93.2	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	71.5	45	112
8270C	2-Fluorophenol (Surr)	%R:	64.7	41	84
8270C	d14-Terphenyl (Surr)	%R:	74.5	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	65.7	35	105
8270C	Phenol-d5 (surr)	%R:	68.3	50	100



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-43-01 (5-9)

Sample No: 19-0138-005

Date Collected: 01/09/19

Time Collected: 12:26

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/09/19				
Total Solids	86.92		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/14/19				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-43-01 (5-9)

Sample No: 19-0138-005

Date Collected: 01/09/19

Time Collected: 12:26

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/14/19				
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: 01/14/19		Preparation Date: 01/13/19		
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-43-01 (5-9)

Sample No: 19-0138-005

Date Collected: 01/09/19

Time Collected: 12:26

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 01/14/19		Preparation Date: 01/13/19		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-43-01 (5-9)

Sample No: 19-0138-005

Date Collected: 01/09/19

Time Collected: 12:26

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 01/14/19		Preparation Date: 01/13/19		
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: 01/10/19		Preparation Date: 01/10/19		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.7	1.0	mg/kg	
Barium	32.0	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	63,000	50	mg/kg	
Chromium	11.8	0.5	mg/kg	
Cobalt	9.3	0.5	mg/kg	
Copper	21.0	0.5	mg/kg	
Iron	17,400	5.0	mg/kg	
Lead	9.7	0.5	mg/kg	
Magnesium	35,500	50	mg/kg	
Manganese	394	0.5	mg/kg	
Nickel	21.5	0.5	mg/kg	
Potassium	1,960	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	646	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	16.6	1.0	mg/kg	
Zinc	42.1	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 01/10/19				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2				
Method: 9045D 2004				
Analysis Date: 01/14/19 13:00				
pH @ 25°C, 1:2	8.85		Units	
TCLP Extraction				
Method: 1311				
Analysis Date: 01/11/19				
TCLP Extraction	Complete			



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-43-01 (5-9)

Sample No: 19-0138-005

Date Collected: 01/09/19

Time Collected: 12:26

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311		Method: 6010C		
Analysis Date: 01/16/19		Preparation Method 3010A		
		Preparation Date: 01/15/19		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.4	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	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: 01/15/19				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction		Method: 1312		
Analysis Date: 01/11/19				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		
Analysis Date: 01/15/19		Preparation Method 3010A		
		Preparation Date: 01/14/19		
Arsenic	0.081	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.006	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.135	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.236	0.005	mg/L	
Iron	191	0.1	mg/L	
Lead	0.073	0.005	mg/L	
Manganese	1.3	0.1	mg/L	
Nickel	0.2	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	



**First
Environmental
Laboratories, Inc.**

IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-43-01 (5-9)

Sample No: 19-0138-005

Date Collected: 01/09/19

Time Collected: 12:26

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312 Analysis Date: 01/15/19	Method: 6010C	Preparation Method 3010A Preparation Date: 01/14/19		
Zinc	0.6	0.1	mg/L	

SPLP Mercury Method 1312 Analysis Date: 01/17/19	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	

Sample QC Summary:		Surrogate Recovery		%R Limits	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	99	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.6	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	90.6	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	97.2	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	78	45	112
8270C	2-Fluorophenol (Surr)	%R:	71.2	41	84
8270C	d14-Terphenyl (Surr)	%R:	78.8	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	71.6	35	105
8270C	Phenol-d5 (surr)	%R:	74.7	50	100



Illinois Environmental Protection Agency

Page 1 of 2

Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

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: FAU 0347 IL Route 38

Office Phone Number, if available: 847-705-4122

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

1627V2-44 (720 E. State St), 1627V2-45 (700 E. State St), 1627V2-46 (634 E. State St), 1627V2-48 (626 E. State St), 1627V2-50 (637 E. State St), 1627V2-56 (537 State St), 1627V2-57 (602 E. State St), 1627V2-59 (501 E. State St), 1627V2-65 (427 E. State St), 1627V2-73 (230 E. State St), 1627V2-81 (122-130 E. State St)

City: Geneva

State: IL

Zip Code: 60134

County: Kane

Township: _____

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

Latitude: 41.8865

Longitude: - 88.2975

(Decimal Degrees)

(-Decimal Degrees)

Identify how the lat/long data were determined:

☐ GPS ☐ Map Interpolation ☐ Photo Interpolation ☐ Survey ☒ Other

ISGS Public Land Survey System - Approximate Center of multiple addresses

IEPA Site Number(s), if assigned: _____

BOL: _____

BOW: _____

BOA: _____

II. Owner/Operator Information for Source Site

Site Owner

Site Operator

Name: Illinois Dept. of Transportation, District 1

Name: Illinois Dept. of Transportation, District 1

Street Address: 201 W Center Court

Street Address: 201 W Center Court

PO Box: _____

PO Box: _____

City: Schaumburg

State: IL

City: Schaumburg

State: IL

Zip Code: 60196

Phone: 847-705-4122

Zip Code: 60196

Phone: 847-705-4122

Contact: Irma Romiti-Johnson

Contact: Irma Romiti-Johnson

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

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.

Project Name: FAU 0347 IL Route 38Latitude: 41.8865 Longitude: - 88.2975Uncontaminated Site Certification**III. Basis for Certification and Attachments**

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

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

Refer to Figure 4-1.1-4-1.5 in the Final PSI Report and borings 1627V2-44-01 (IL 38 Sta 145+25, 40 Right), 1627V2-45-01 (IL 38 Sta 144+50, 40 Right), 1627V2-46-01 (IL 38 Sta 143+00, 40 Right), 1627V2-48-01 (IL 38 Sta 140+50, 40 Right), 1627V2-50-01 (IL 38 Sta 142+75, 40 Left), 1627V2-50-02 (IL 38 Sta 143+25, 40 Left), 1627V2-56-01 (IL 38 Sta 136+00, 30 Left), 1627V2-57-01 (IL 38 Sta 137+00, 30 Right), 1627V2-59-02 (IL 38 Sta 135+50, 30 Left), 1627V2-65-01 (IL 38 Sta 133+75, 30 Left), 1627V2-73-02 (IL 38 Sta 127+50, 30 Right), 1627V2-81-01 (IL 38 Sta 123+40, 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, Inc. report #19-0092 and 19-0138. 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 330City: Oak Brook State: IL Zip Code: 60523Phone: 630-684-9100Jeremy J. Reynolds, P.G.

Printed Name:

[Signature]
Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Date: 2/12/19

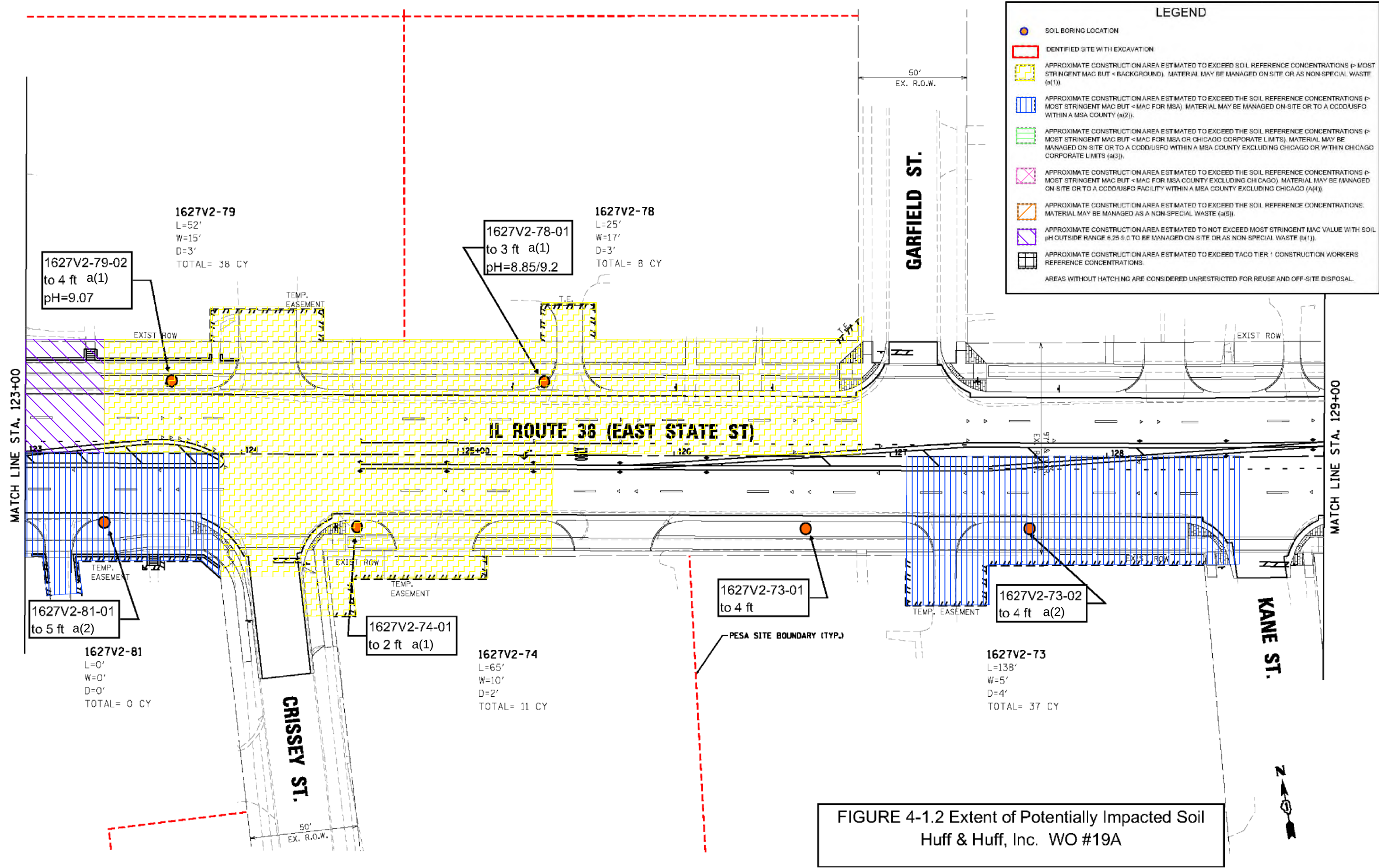


FIGURE 4-1.2 Extent of Potentially Impacted Soil
Huff & Huff, Inc. WO #19A

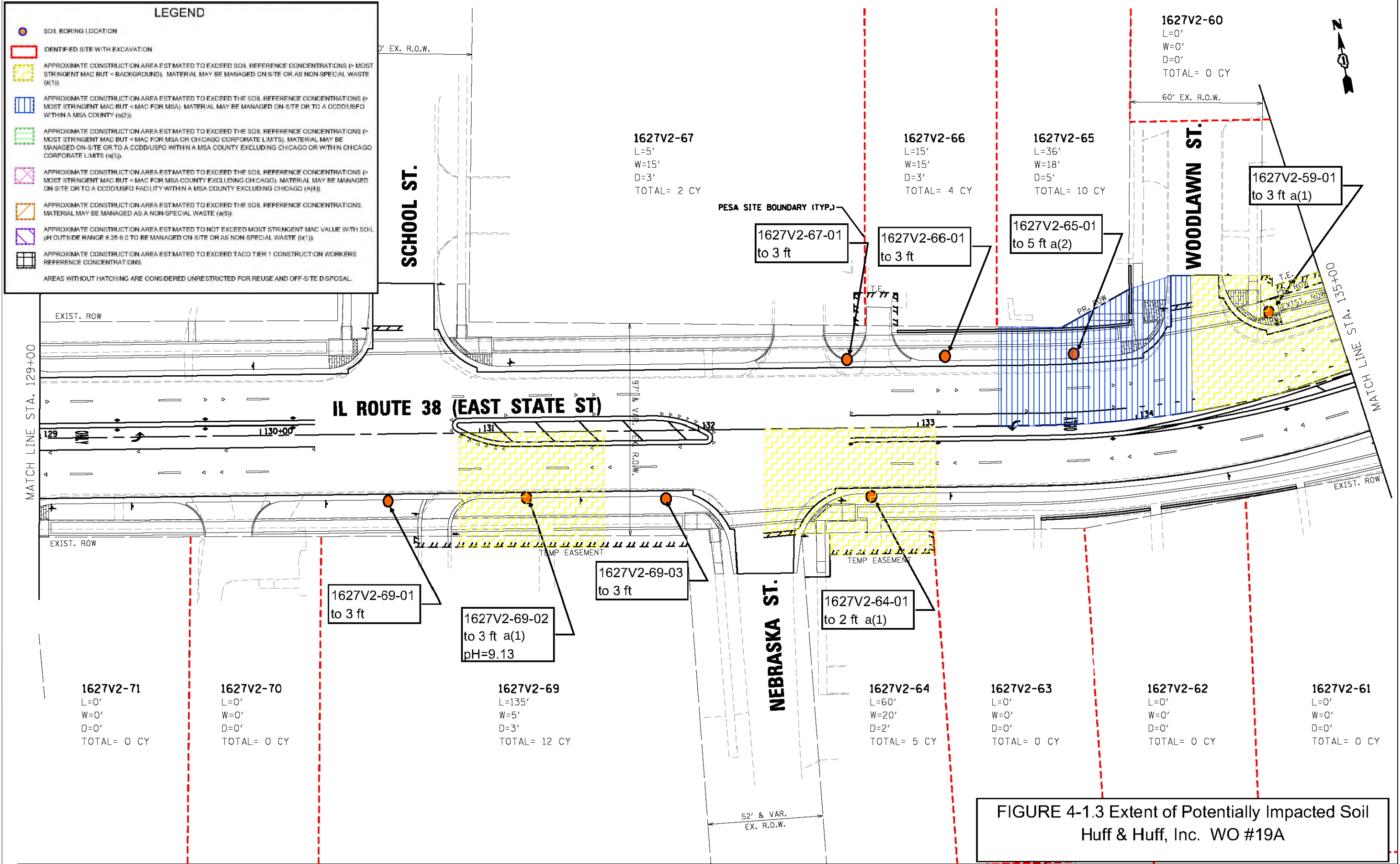
FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE =	CHECKED -	REVISED -
	PLOT DATE =	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

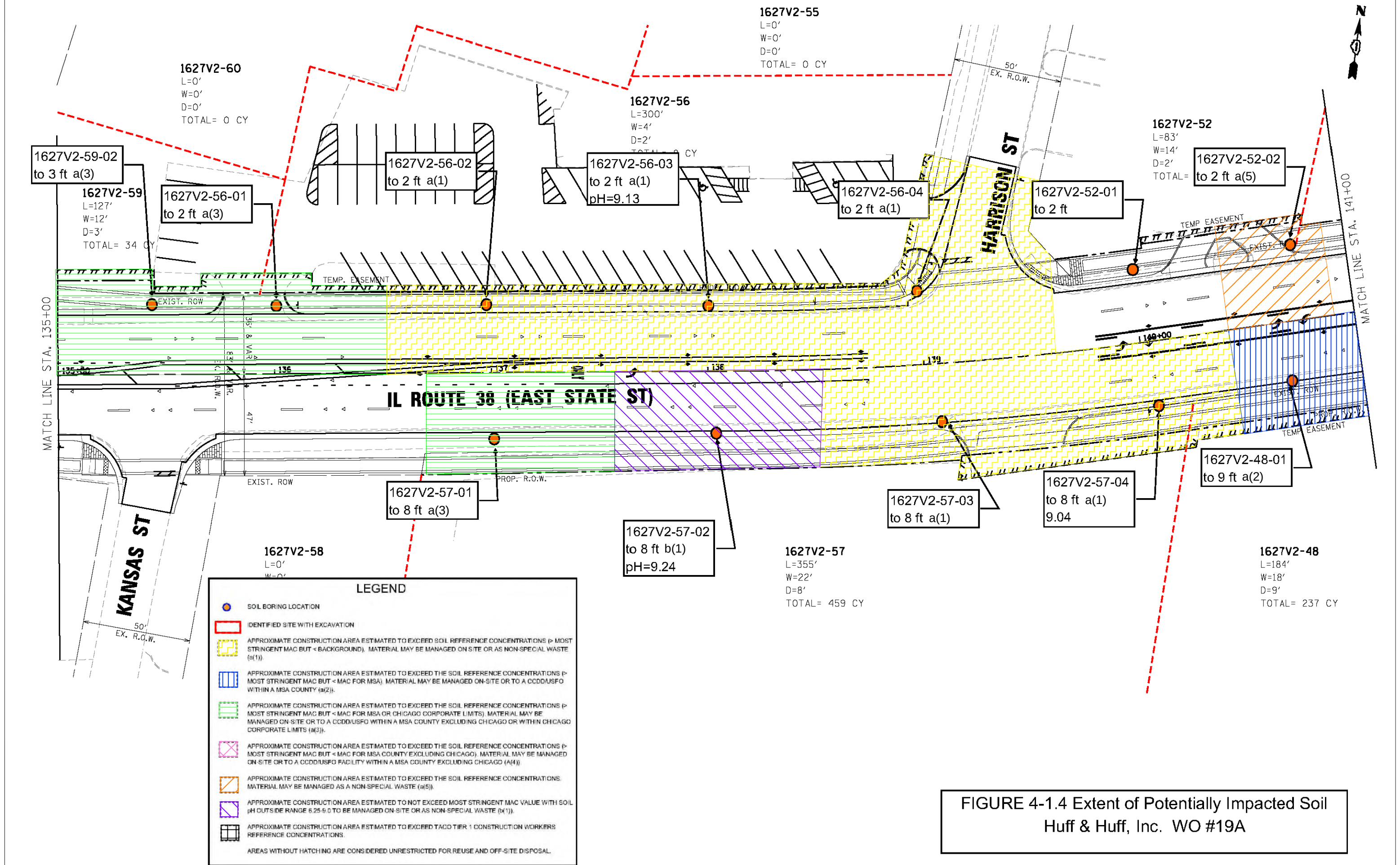
IDOT IL Route 38 (East State Street) Geneva, Kane County, Illinois				F.A.U. RTE. 573	SECTION 61HB-B	COUNTY KANE	TOTAL SHEETS 11	SHE NO 2
SCALE: 1" = Approx. 47'				CONTRACT NO. 60W52				
SHEET NO. 2 OF 11 SHEETS				ILLINOIS FED. AID PROJECT				

LEGEND

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



FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		IDOT IL Route 38 (East State Street) Geneva, Kane County, Illinois		F.A.U. RTE. 573	SECTION 61HB-B	COUNTY KANE	TOTAL SHEETS 11	SHE NO 3
		DRAWN -	REVISED -									
PLOT SCALE =		CHECKED -	REVISED -									
PLOT DATE =		DATE -	REVISED -									
						SCALE: 1" = Approx. 47'	SHEET NO. 3 OF 11 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		



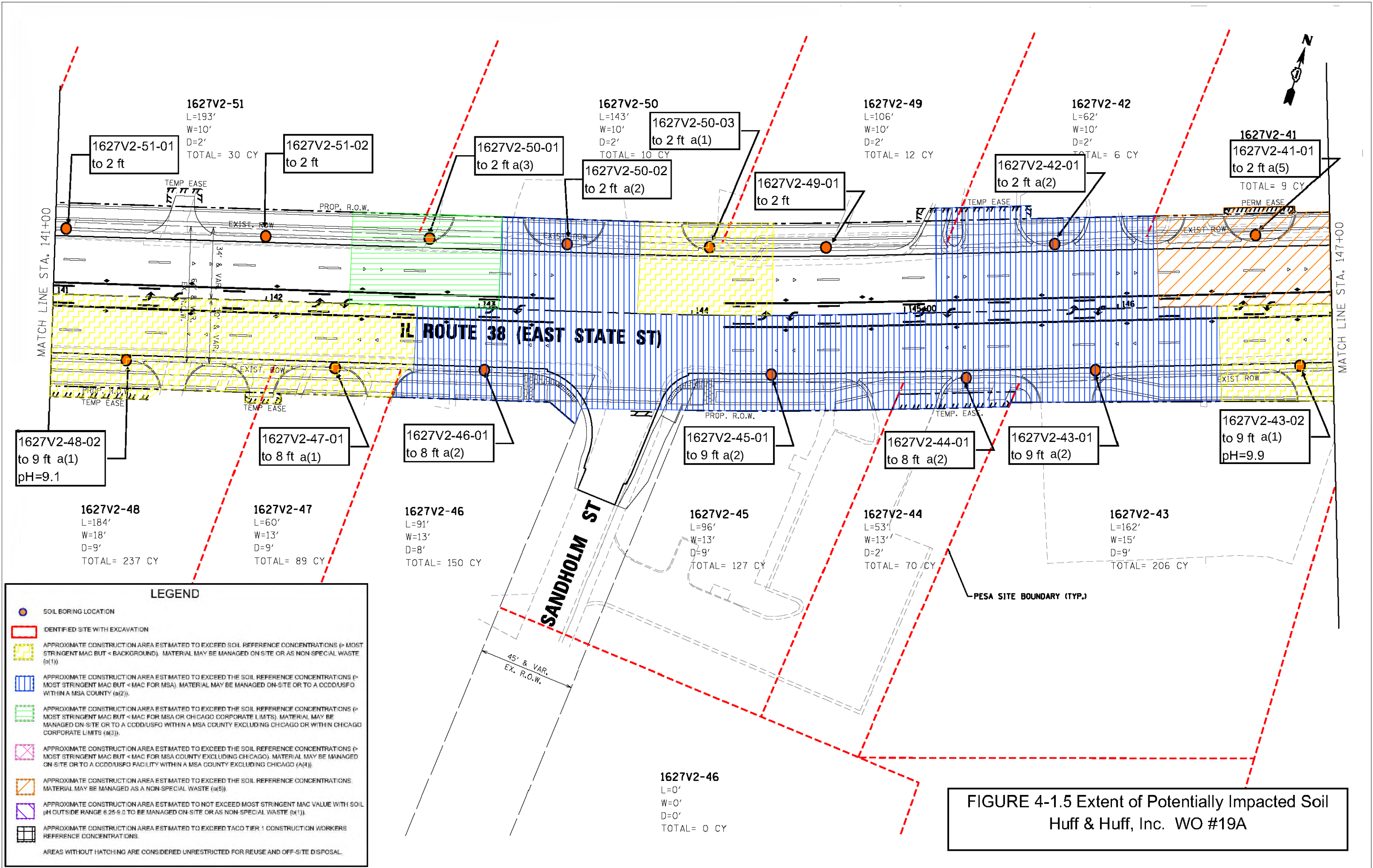


FIGURE 4-1.5 Extent of Potentially Impacted Soil
Huff & Huff, Inc. WO #19A

Soils for Reuse or Disposal at CCDD Facilities in MSA Counties ***Including*** Chicago
IL Route 38 (East State Street)
Geneva, Kane County, Illinois
BDE Sequence No.: 13066C
PTB: 178-008/HH-1, Work Order No.: 19A

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/}	1627V2-44-01	1627V2-44-01	1627V2-45-01	1627V2-45-01	1627V2-46-01	1627V2-46-01	1627V2-48-01	1627V2-48-01	1627V2-50-01	1627V2-50-02	1627V2-56-01	1627V2-57-01	1627V2-57-01	1627V2-59-02	1627V2-65-01	1627V2-73-02	DUP-12 (1627V2-73-02)	1627V2-81-01
				(0-4)	(4-8)	(0-5)	(5-9)	(0-4)	(4-8)	(0-5)	(5-9)	(0-2)	(0-2)	(0-2)	(0-4)	(4-8)	(0-3)	(0-5)	(0-4)	(0-4)	(0-5)
				1/9/2019	1/9/2019	1/9/2019	1/9/2019	1/9/2019	1/9/2019	1/9/2019	1/9/2019	1/9/2019	1/9/2019	1/9/2019	1/9/2019	1/9/2019	1/9/2019	1/9/2019	1/10/2019	1/10/2019	1/10/2019
				1627V2-44		1627V2-45		1627V2-46		1627V2-48		1627V2-50		1627V2-56	1627V2-57		1627V2-59	1627V2-65	1627V2-73		1627V2-81
Parameter																					
VOCs, mg/kg																					
Benzene	0.03	2.2	0.8	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Carbon disulfide	9	9	720	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0062	<0.005	<0.005	<0.005	<0.005
Methyl tert-butyl ether	0.32	140	780	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SVOCs, mg/kg																					
Anthracene	12,000	610000	23000	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Benidine	---	---	---	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Benzo(a)anthracene	0.9 / 1.1 / 1.8	170	0.9	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.507	<0.33	<0.33	<0.33	<0.33
Benzo(a)pyrene	0.09 / 1.3 / 2.1	17	0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	0.279	<0.09	0.379	0.164	<0.09	0.606	<0.09	<0.33	<0.33	<0.33
Benzo(b)fluoranthene	0.9 / 1.5 / 2.1	170	0.9	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.421	<0.33	<0.33	0.655	<0.33	<0.09	<0.09	<0.09
Benzo(k)fluoranthene	9	1700	9	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.38	<0.33	<0.33	0.578	<0.33	<0.33	<0.33	<0.33
Benzo(g,h,i)perylene	---	---	---	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.368	<0.33	<0.33	0.363	<0.33	<0.33	<0.33	<0.33
Benzoic acid	400	820000	310000	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Bis(2-ethylhexyl)phthalate	46	4100	46	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Butyl benzyl phthalate	930	410000	930	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Carbazole	0.6	6200	32	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Chrysene	88	17000	88	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.381	<0.33	<0.33	0.652	<0.33	<0.33	<0.33	<0.33
Dibenz(a,h)anthracene	0.09 / 0.2 / 0.42	17	0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09
Fluoranthene	3,100	82,000	3,100	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.536	<0.33	0.805	<0.33	<0.33	1.33	<0.33	<0.33	<0.33	<0.33
Indeno(1,2,3-cd)pyrene	0.9 / 0.9 / 1.6	170	0.9	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.376	<0.33	<0.33	0.392	<0.33	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.511	<0.33	<0.33	<0.33	<0.33
Pyrene	2,300	61000	2300	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.442	<0.33	0.587	<0.33	<0.33	0.977	<0.33	<0.33	<0.33	<0.33

--- - 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

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

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

Shaded values indicate concentration exceeds reference concentration

Soils for Reuse or Disposal at CCDD Facilities in MSA Counties Including Chicago
IL Route 38 (East State Street)
Geneva, Kane County, Illinois
BDE Sequence No.: 13066C
PTB: 178-008/HH-1, Work Order No.: 19A

Boring ID	Soil Reference Concentrations ^{a/}	Soil Remediation Objective for Construction Workers ^{b/}	Soil Remediation Objective for Residential Exposure ^{c/}	1627V2-44-01	1627V2-44-01	1627V2-45-01	1627V2-45-01	1627V2-46-01	1627V2-46-01	1627V2-48-01	1627V2-48-01	1627V2-50-01	1627V2-50-02	1627V2-56-01	1627V2-57-01	1627V2-57-01	1627V2-59-02	1627V2-65-01	1627V2-73-02	DUP-12 (1627V2-73-02)	1627V2-81-01	
Sample Depth, ft				(0-4)	(4-8)	(0-5)	(5-9)	(0-4)	(4-8)	(0-5)	(5-9)	(0-2)	(0-2)	(0-2)	(0-4)	(4-8)	(0-3)	(0-5)	(0-4)	(0-4)	(0-5)	
Sample Date				1/9/2019	1/9/2019	1/9/2019	1/9/2019	1/9/2019	1/9/2019	1/9/2019	1/9/2019	1/9/2019	1/9/2019	1/9/2019	1/9/2019	1/9/2019	1/9/2019	1/9/2019	1/9/2019	1/10/2019	1/10/2019	1/10/2019
Excavation Area(s) [ISGS Site No.(s)]				1627V2-44		1627V2-45		1627V2-46		1627V2-48		1627V2-50		1627V2-56	1627V2-57		1627V2-59	1627V2-65	1627V2-73		1627V2-81	
Parameter																						
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	8.77	8.98	8.7	8.92	8.98	8.94	8.05	8.49	8.31	8.64	8.57	8.57	8.23	8.32	8.63	8.45	8.51	8.96	
Total Metals, mg/kg																						
Antimony	5	82	31	1.4	1.2	1	<1.0	<1.0	<1.0	<1.0	<1.0	1.6	1.5	1.2	1.4	1.6	<1.0	<1.0	<1.0	<1.0	<1.0	
Arsenic	11.3 / 13	61	13	9.5	8.2	6.6	4.4	5.6	6.7	5.4	4.3	6.7	6.7	3.1	5.8	4.2	5.9	3.7	3.9	4.9	4.5	
Barium	1,500	14,000	5500	97.4	32.5	89.6	22.7	33.6	23.4	104	23.7	72.3	93.9	75.1	82	71.7	110	46.5	30.9	33	24.6	
Beryllium	22	410	160	0.7	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.7	<0.5	<0.5	<0.5	0.5	<0.5	<0.5	<0.5	<0.5	
Cadmium	5.2	200	78	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Calcium	---	---	---	17700	63600	5350	69600	75800	65700	3790	56700	26200	5710	54600	42100	3200	9340	94600	82700	68700	61400	
Chromium	21	690	230	15.2	11.1	15.6	9.8	9.5	10.2	13.4	10.4	13.5	17.2	16.2	14.2	15.6	13.7	10.7	9.4	13.8	10	
Cobalt	20	12,000	4700	9.1	6.9	8.6	6.1	6.9	8.7	6.4	5.5	7.2	8.9	7.1	6.8	4.3	8.2	3.8	5.2	7.3	5.8	
Copper	2,900	8,200	2900	17.7	19.9	16.9	15.7	15.3	19	11.5	14.7	16	13.3	13.5	17.7	15.8	18.1	13.1	12.4	15.9	16.6	
Iron	15,000 / 15,900	---	---	20600	17700	18500	13000	13900	15400	14500	12900	14900	19500	11100	15300	20800	14400	11600	11600	14500	12800	
Lead	107	700	400	12.1	9	13.4	6.8	8.5	9.9	20.7	6.5	82.1	11.4	16.8	54.4	9.5	85.9	7.8	6.1	7.8	11.7	
Magnesium	325,000	730,000	325000	10900	34400	4030	37400	42000	36800	2760	33500	15500	3930	31200	23500	3490	5960	36200	51000	41200	37900	
Manganese	630 / 636	4,100	1600	437	264	630	306	320	331	556	253	508	612	453	525	157	780	225	304	316	295	
Mercury	0.89	0.1	10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.07	<0.05	<0.05	0.07	<0.05	0.1	<0.05	<0.05	<0.05	<0.05	
Nickel	100	4,100	1600	17.2	16.7	17.2	16.3	16	17.6	12.2	14.6	15.3	16.2	9.2	13	12.9	13.4	11.7	15	17.8	17	
Potassium	---	---	---	1800	1870	685	1800	1800	1830	1610	1800	978	1230	915	1100	718	1070	2000	1040	1270	1250	
Selenium	1.3	1,000	390	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Silver	4.4	1,000	390	0.6	0.4	0.4	0.3	0.3	0.4	0.4	0.3	0.4	0.5	0.3	0.4	0.5	0.3	0.3	0.3	0.4	0.3	
Sodium	---	---	---	1710	677	2210	619	511	482	539	229	328	914	759	470	390	248	196	130	154	384	
Thallium	2.6	160	6.3	<1.0	<1.0	1.3	<1.0	<1.0	<1.0	1.7	<1.0	1.2	1.5	1.3	1.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Vanadium	550	1,400	550	30.8	18.6	24.2	14.5	14.3	14.7	25.5	12.7	21.1	27	20.5	24.3	24.5	25.2	15.1	14.3	18	15.2	
Zinc	5,100	61,000	23000	38.3	39.8	35.6	34	35.4	38.5	43.1	37.9	57.6	40.1	48.7	63.7	44.4	169	27.9	28.6	37.5	38.7	
TCLP Metals, mg/L	Class I Groundwater ^{d/}																					
Arsenic	0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.022	<0.010	
Barium	2			1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Beryllium	0.004			<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
Cadmium	0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Chromium	0.1			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.052	<0.005	
Cobalt	1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Copper	0.65			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Iron	5			0.1	0.2	<0.1	0.4	0.3	0.4	1.1	0.4	0.1	0.3	0.1	<0.1	0.3	0.2	0.1	0.1	64.8	0.5	
Lead	0.0075			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.015	<0.005	0.025	<0.005	
Manganese	0.15			5.2	0.9	<0.1	1.9	0.6	0.5	<0.1	0.9	0.5	0.3	1.1	0.2	<0.1	0.1	4.5	0.7	0.4	0.7	
Mercury	0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Nickel	0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Selenium	0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
Silver	0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Zinc	5			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	
SPLP Metals, mg/L	Class I Groundwater ^{d/}																					
Arsenic	0.05			0.034	0.019	0.024	0.073	0.077	0.074	0.011	0.046	0.039	0.022	<0.010	0.023	0.05	0.035	<0.010	<0.010	<0.010	0.04	
Barium	2			1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Beryllium	0.004			0.005	<0.004	<0.004	0.004	0.005	0.004	<0.004	<0.004	<0.004	0.004	<0.004	<0.004							



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IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-44-01 (0-4)

Sample No: 19-0138-006

Date Collected: 01/09/19

Time Collected: 12:16

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total Method: 2540B				
Analysis Date: 01/09/19				
Total Solids	81.49		%	
Volatile Organic Compounds Method: 5035A/8260B				
Analysis Date: 01/14/19				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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IL ELAP / NELAC Accreditation # 100292

Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-44-01 (0-4)

Sample No: 19-0138-006

Date Collected: 01/09/19

Time Collected: 12:16

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/14/19				
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: 01/14/19		Preparation Date: 01/13/19		
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-44-01 (0-4)

Sample No: 19-0138-006

Date Collected: 01/09/19

Time Collected: 12:16

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 01/14/19		Preparation Date: 01/13/19		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO-19
Sample ID: 1627V2-44-01 (0-4)
Sample No: 19-0138-006

Date Collected: 01/09/19
Time Collected: 12:16
Date Received: 01/09/19
Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 01/14/19		Preparation Date: 01/13/19		
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: 01/10/19		Preparation Date: 01/10/19		
Antimony	1.4	1.0	mg/kg	
Arsenic	9.5	1.0	mg/kg	
Barium	97.4	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	17,700	50	mg/kg	
Chromium	15.2	0.5	mg/kg	
Cobalt	9.1	0.5	mg/kg	
Copper	17.7	0.5	mg/kg	
Iron	20,600	5.0	mg/kg	
Lead	12.1	0.5	mg/kg	
Magnesium	10,900	50	mg/kg	
Manganese	437	0.5	mg/kg	
Nickel	17.2	0.5	mg/kg	
Potassium	1,800	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	1,710	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	30.8	1.0	mg/kg	
Zinc	38.3	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 01/10/19				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2				
Method: 9045D 2004				
Analysis Date: 01/14/19 13:00				
pH @ 25°C, 1:2	8.77		Units	
TCLP Extraction				
Method: 1311				
Analysis Date: 01/11/19				
TCLP Extraction	Complete			



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO-19
Sample ID: 1627V2-44-01 (0-4)
Sample No: 19-0138-006

Date Collected: 01/09/19
Time Collected: 12:16
Date Received: 01/09/19
Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 01/16/19		Preparation Date: 01/15/19		
Arsenic	< 0.010	0.010	mg/L	
Barium	1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	5.2	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: 01/15/19				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 01/11/19				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A				
Analysis Date: 01/15/19		Preparation Date: 01/14/19		
Arsenic	0.034	0.010	mg/L	
Barium	1.0	1.0	mg/L	
Beryllium	0.005	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.130	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.143	0.005	mg/L	
Iron	143	0.1	mg/L	
Lead	0.072	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	



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1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-44-01 (0-4)

Sample No: 19-0138-006

Date Collected: 01/09/19

Time Collected: 12:16

Date Received: 01/09/19

Date Reported: 01/21/19

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: 01/15/19 Preparation Date: 01/14/19				
Zinc	0.4	0.1	mg/L	
SPLP Mercury Method 1312 Method: 7470A				
Analysis Date: 01/17/19				
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: 97.3	86	117
5035A/8260B	d8-Toluene (Surr)	%R: 98.2	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 85.2	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R: 93	59	131
8270C	2-Fluorobiphenyl (Surr)	%R: 71.6	45	112
8270C	2-Fluorophenol (Surr)	%R: 63.9	41	84
8270C	d14-Terphenyl (Surr)	%R: 72.2	56	120
8270C	d5-Nitrobenzene (Surr)	%R: 66.1	35	105
8270C	Phenol-d5 (surr)	%R: 67.6	50	100



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-44-01 (4-8)

Sample No: 19-0138-007

Date Collected: 01/09/19

Time Collected: 12:18

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total				
Method: 2540B				
Analysis Date: 01/09/19				
Total Solids	85.91		%	
Volatile Organic Compounds				
Method: 5035A/8260B				
Analysis Date: 01/14/19				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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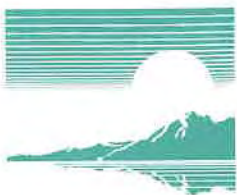
Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO-19
Sample ID: 1627V2-44-01 (4-8)
Sample No: 19-0138-007

Date Collected: 01/09/19
Time Collected: 12:18
Date Received: 01/09/19
Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds				
Method: 5035A/8260B				
Analysis Date: 01/14/19				
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: 01/14/19		Preparation Date: 01/13/19		
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO-19
Sample ID: 1627V2-44-01 (4-8)
Sample No: 19-0138-007

Date Collected: 01/09/19
Time Collected: 12:18
Date Received: 01/09/19
Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 01/14/19		Preparation Date: 01/13/19		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-44-01 (4-8)

Sample No: 19-0138-007

Date Collected: 01/09/19

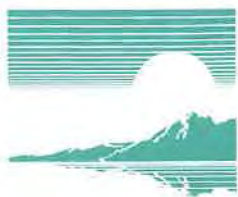
Time Collected: 12:18

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 01/14/19		Preparation Date: 01/13/19		
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: 01/10/19		Preparation Date: 01/10/19		
Antimony	1.2	1.0	mg/kg	
Arsenic	8.2	1.0	mg/kg	
Barium	32.5	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	63,600	50	mg/kg	
Chromium	11.1	0.5	mg/kg	
Cobalt	6.9	0.5	mg/kg	
Copper	19.9	0.5	mg/kg	
Iron	17,700	5.0	mg/kg	
Lead	9.0	0.5	mg/kg	
Magnesium	34,400	50	mg/kg	
Manganese	264	0.5	mg/kg	
Nickel	16.7	0.5	mg/kg	
Potassium	1,870	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	677	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	18.6	1.0	mg/kg	
Zinc	39.8	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 01/10/19				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2				
Method: 9045D 2004				
Analysis Date: 01/14/19 13:00				
pH @ 25°C, 1:2	8.98		Units	
TCLP Extraction				
Method: 1311				
Analysis Date: 01/11/19				
TCLP Extraction	Complete			



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-44-01 (4-8)

Sample No: 19-0138-007

Date Collected: 01/09/19

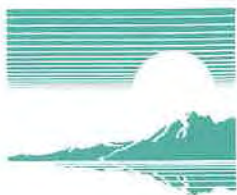
Time Collected: 12:18

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311		Method: 6010C		
Analysis Date: 01/16/19		Preparation Method 3010A		
		Preparation Date: 01/15/19		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	0.9	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311		Method: 7470A		
Analysis Date: 01/15/19				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction		Method: 1312		
Analysis Date: 01/11/19				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		
Analysis Date: 01/15/19		Preparation Method 3010A		
		Preparation Date: 01/14/19		
Arsenic	0.019	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	0.050	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.068	0.005	mg/L	
Iron	63.7	0.1	mg/L	
Lead	0.028	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	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-44-01 (4-8)

Sample No: 19-0138-007

Date Collected: 01/09/19

Time Collected: 12:18

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312 Analysis Date: 01/15/19	Method: 6010C	Preparation Method 3010A Preparation Date: 01/14/19		
Zinc	0.2	0.1	mg/L	
SPLP Mercury Method 1312 Analysis Date: 01/17/19	Method: 7470A			
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: 99.2	86	117
5035A/8260B	d8-Toluene (Surr)	%R: 98.9	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 90.4	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R: 95.3	59	131
8270C	2-Fluorobiphenyl (Surr)	%R: 74.3	45	112
8270C	2-Fluorophenol (Surr)	%R: 67.6	41	84
8270C	d14-Terphenyl (Surr)	%R: 75.5	56	120
8270C	d5-Nitrobenzene (Surr)	%R: 68.2	35	105
8270C	Phenol-d5 (surr)	%R: 71.2	50	100



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO-19
Sample ID: 1627V2-45-01 (0-5)
Sample No: 19-0138-008

Date Collected: 01/09/19
Time Collected: 11:55
Date Received: 01/09/19
Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total Method: 2540B				
Analysis Date: 01/09/19				
Total Solids	80.24		%	
Volatile Organic Compounds Method: 5035A/8260B				
Analysis Date: 01/15/19				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-45-01 (0-5)

Sample No: 19-0138-008

Date Collected: 01/09/19

Time Collected: 11:55

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/15/19				
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: 01/14/19		Preparation Date: 01/13/19		
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO-19
Sample ID: 1627V2-45-01 (0-5)
Sample No: 19-0138-008

Date Collected: 01/09/19
Time Collected: 11:55
Date Received: 01/09/19
Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 01/14/19		Preparation Date: 01/13/19		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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IL ELAP / NELAC Accreditation # 100292

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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-45-01 (0-5)

Sample No: 19-0138-008

Date Collected: 01/09/19

Time Collected: 11:55

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 01/14/19		Preparation Date: 01/13/19		
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: 01/10/19		Preparation Date: 01/10/19		
Antimony	1.0	1.0	mg/kg	
Arsenic	6.6	1.0	mg/kg	
Barium	89.6	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	5,350	50	mg/kg	
Chromium	15.6	0.5	mg/kg	
Cobalt	8.6	0.5	mg/kg	
Copper	16.9	0.5	mg/kg	
Iron	18,500	5.0	mg/kg	
Lead	13.4	0.5	mg/kg	
Magnesium	4,030	50	mg/kg	
Manganese	630	0.5	mg/kg	
Nickel	17.2	0.5	mg/kg	
Potassium	685	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	2,210	50	mg/kg	
Thallium	1.3	1.0	mg/kg	
Vanadium	24.2	1.0	mg/kg	
Zinc	35.6	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 01/10/19				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2				
Method: 9045D 2004				
Analysis Date: 01/14/19 13:00				
pH @ 25°C, 1:2	8.70		Units	
TCLP Extraction				
Method: 1311				
Analysis Date: 01/11/19				
TCLP Extraction	Complete			



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO-19
Sample ID: 1627V2-45-01 (0-5)
Sample No: 19-0138-008

Date Collected: 01/09/19
Time Collected: 11:55
Date Received: 01/09/19
Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311		Method: 6010C		
Analysis Date: 01/16/19		Preparation Method 3010A		
		Preparation Date: 01/15/19		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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: 01/15/19				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction		Method: 1312		
Analysis Date: 01/11/19				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		
Analysis Date: 01/15/19		Preparation Method 3010A		
		Preparation Date: 01/14/19		
Arsenic	0.024	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	0.067	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.054	0.005	mg/L	
Iron	68.4	0.1	mg/L	
Lead	0.033	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	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-45-01 (0-5)

Sample No: 19-0138-008

Date Collected: 01/09/19

Time Collected: 11:55

Date Received: 01/09/19

Date Reported: 01/21/19

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: 01/15/19 Preparation Date: 01/14/19				
Zinc	0.1	0.1	mg/L	
SPLP Mercury Method 1312 Method: 7470A				
Analysis Date: 01/17/19				
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: 99.2	86	117
5035A/8260B	d8-Toluene (Surr)	%R: 98.3	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 104.1	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R: 78.4	59	131
8270C	2-Fluorobiphenyl (Surr)	%R: 79.2	45	112
8270C	2-Fluorophenol (Surr)	%R: 54.2	41	84
8270C	d14-Terphenyl (Surr)	%R: 76.6	56	120
8270C	d5-Nitrobenzene (Surr)	%R: 68.6	35	105
8270C	Phenol-d5 (surr)	%R: 63.5	50	100



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO-19
Sample ID: 1627V2-45-01 (5-9)
Sample No: 19-0138-009

Date Collected: 01/09/19
Time Collected: 12:00
Date Received: 01/09/19
Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total Method: 2540B				
Analysis Date: 01/09/19				
Total Solids	87.45		%	
Volatile Organic Compounds Method: 5035A/8260B				
Analysis Date: 01/15/19				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO-19
Sample ID: 1627V2-45-01 (5-9)
Sample No: 19-0138-009

Date Collected: 01/09/19
Time Collected: 12:00
Date Received: 01/09/19
Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/15/19				
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: 01/14/19			Preparation Date: 01/13/19	
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO-19
Sample ID: 1627V2-45-01 (5-9)
Sample No: 19-0138-009

Date Collected: 01/09/19
Time Collected: 12:00
Date Received: 01/09/19
Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 01/14/19		Preparation Date: 01/13/19		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-45-01 (5-9)

Sample No: 19-0138-009

Date Collected: 01/09/19

Time Collected: 12:00

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 01/14/19		Preparation Date: 01/13/19		
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: 01/10/19		Preparation Date: 01/10/19		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.4	1.0	mg/kg	
Barium	22.7	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	69,600	50	mg/kg	
Chromium	9.8	0.5	mg/kg	
Cobalt	6.1	0.5	mg/kg	
Copper	15.7	0.5	mg/kg	
Iron	13,000	5.0	mg/kg	
Lead	6.8	0.5	mg/kg	
Magnesium	37,400	50	mg/kg	
Manganese	306	0.5	mg/kg	
Nickel	16.3	0.5	mg/kg	
Potassium	1,800	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	619	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	14.5	1.0	mg/kg	
Zinc	34.0	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 01/10/19				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2				
Method: 9045D 2004				
Analysis Date: 01/14/19 13:00				
pH @ 25°C, 1:2	8.92		Units	
TCLP Extraction				
Method: 1311				
Analysis Date: 01/11/19				
TCLP Extraction	Complete			



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-45-01 (5-9)

Sample No: 19-0138-009

Date Collected: 01/09/19

Time Collected: 12:00

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311		Method: 6010C		
Analysis Date: 01/16/19		Preparation Method 3010A		
		Preparation Date: 01/15/19		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.4	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.9	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

TCLP Mercury Method 1311

Method: 7470A

Analysis Date: 01/15/19

Mercury	< 0.0005	0.0005	mg/L
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SPLP Extraction

Method: 1312

Analysis Date: 01/11/19

SPLP Metals Extraction

Complete

SPLP Metals Method 1312

Method: 6010C

Analysis Date: 01/15/19

Preparation Method 3010A

Preparation Date: 01/14/19

Arsenic	0.073	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	0.122	0.005	mg/L
Cobalt	< 0.1	0.1	mg/L
Copper	0.236	0.005	mg/L
Iron	172	0.1	mg/L
Lead	0.069	0.005	mg/L
Manganese	1.4	0.1	mg/L
Nickel	0.2	0.1	mg/L
Selenium	< 0.010	0.010	mg/L
Silver	< 0.005	0.005	mg/L



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO-19
Sample ID: 1627V2-45-01 (5-9)
Sample No: 19-0138-009

Date Collected: 01/09/19
Time Collected: 12:00
Date Received: 01/09/19
Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		
Analysis Date: 01/15/19		Preparation Method 3010A		
		Preparation Date: 01/14/19		
Zinc	0.6	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 01/17/19				
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: 100.1	86	117
5035A/8260B	d8-Toluene (Surr)	%R: 98.9	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 107.2	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R: 92.3	59	131
8270C	2-Fluorobiphenyl (Surr)	%R: 74.4	45	112
8270C	2-Fluorophenol (Surr)	%R: 66.8	41	84
8270C	d14-Terphenyl (Surr)	%R: 72.8	56	120
8270C	d5-Nitrobenzene (Surr)	%R: 68.6	35	105
8270C	Phenol-d5 (surr)	%R: 70.5	50	100



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO-19
Sample ID: 1627V2-46-01 (0-4)
Sample No: 19-0138-010

Date Collected: 01/09/19
Time Collected: 11:45
Date Received: 01/09/19
Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total Method: 2540B				
Analysis Date: 01/09/19				
Total Solids	87.42		%	
Volatile Organic Compounds Method: 5035A/8260B				
Analysis Date: 01/15/19				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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IL ELAP / NELAC Accreditation # 100292

Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO-19
Sample ID: 1627V2-46-01 (0-4)
Sample No: 19-0138-010

Date Collected: 01/09/19
Time Collected: 11:45
Date Received: 01/09/19
Date Reported: 01/21/19

Results are reported on a dry weight basis.

Results are reported on a dry weight basis.				
Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/15/19				
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: 01/14/19		Preparation Date: 01/13/19		
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO-19
Sample ID: 1627V2-46-01 (0-4)
Sample No: 19-0138-010

Date Collected: 01/09/19
Time Collected: 11:45
Date Received: 01/09/19
Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 01/14/19		Preparation Date: 01/13/19		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO-19
Sample ID: 1627V2-46-01 (0-4)
Sample No: 19-0138-010

Date Collected: 01/09/19
Time Collected: 11:45
Date Received: 01/09/19
Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 01/14/19		Preparation Date: 01/13/19		
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: 01/10/19		Preparation Date: 01/10/19		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.6	1.0	mg/kg	
Barium	33.6	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	75,800	50	mg/kg	
Chromium	9.5	0.5	mg/kg	
Cobalt	6.9	0.5	mg/kg	
Copper	15.3	0.5	mg/kg	
Iron	13,900	5.0	mg/kg	
Lead	8.5	0.5	mg/kg	
Magnesium	42,000	50	mg/kg	
Manganese	320	0.5	mg/kg	
Nickel	16.0	0.5	mg/kg	
Potassium	1,800	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	511	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	14.3	1.0	mg/kg	
Zinc	35.4	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 01/10/19				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2				
Method: 9045D 2004				
Analysis Date: 01/14/19 13:00				
pH @ 25°C, 1:2	8.98		Units	
TCLP Extraction				
Method: 1311				
Analysis Date: 01/11/19				
TCLP Extraction	Complete			



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO-19
Sample ID: 1627V2-46-01 (0-4)
Sample No: 19-0138-010

Date Collected: 01/09/19
Time Collected: 11:45
Date Received: 01/09/19
Date Reported: 01/21/19

Results are reported on a dry weight basis.

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 01/16/19 Preparation Date: 01/15/19				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	0.3	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.6	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 01/15/19				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 01/11/19				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A				
Analysis Date: 01/15/19 Preparation Date: 01/14/19				
Arsenic	0.077	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.005	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.115	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.199	0.005	mg/L	
Iron	171	0.1	mg/L	
Lead	0.071	0.005	mg/L	
Manganese	0.8	0.1	mg/L	
Nickel	0.2	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-46-01 (0-4)

Sample No: 19-0138-010

Date Collected: 01/09/19

Time Collected: 11:45

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312 Analysis Date: 01/15/19	Method: 6010C	Preparation Method 3010A Preparation Date: 01/14/19		
Zinc	0.5	0.1	mg/L	
SPLP Mercury Method 1312 Analysis Date: 01/17/19	Method: 7470A			
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: 99.3	86	117
5035A/8260B	d8-Toluene (Surr)	%R: 97.5	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 101.3	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R: 91	59	131
8270C	2-Fluorobiphenyl (Surr)	%R: 72.2	45	112
8270C	2-Fluorophenol (Surr)	%R: 63	41	84
8270C	d14-Terphenyl (Surr)	%R: 72.3	56	120
8270C	d5-Nitrobenzene (Surr)	%R: 67.2	35	105
8270C	Phenol-d5 (surr)	%R: 67.9	50	100



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO-19
Sample ID: 1627V2-46-01 (4-8)
Sample No: 19-0138-011

Date Collected: 01/09/19
Time Collected: 11:45
Date Received: 01/09/19
Date Reported: 01/21/19

Results are reported on a dry weight basis.

Results are Reported on a dry weight basis.				
Analyte	Result	R.L.	Units	Flags
Solids, Total				
Method: 2540B				
Analysis Date: 01/09/19				
Total Solids	88.39		%	
Volatile Organic Compounds				
Method: 5035A/8260B				
Analysis Date: 01/15/19				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-46-01 (4-8)

Sample No: 19-0138-011

Date Collected: 01/09/19

Time Collected: 11:45

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds				
Method: 5035A/8260B				
Analysis Date: 01/15/19				
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				
Analysis Date: 01/14/19				
		Preparation Method 3540C		
		Preparation Date: 01/13/19		
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO-19
Sample ID: 1627V2-46-01 (4-8)
Sample No: 19-0138-011

Date Collected: 01/09/19
Time Collected: 11:45
Date Received: 01/09/19
Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 01/14/19		Preparation Date: 01/13/19		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-46-01 (4-8)

Sample No: 19-0138-011

Date Collected: 01/09/19

Time Collected: 11:45

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 01/14/19		Preparation Date: 01/13/19		
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: 01/10/19		Preparation Date: 01/10/19		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.7	1.0	mg/kg	
Barium	23.4	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	65,700	50	mg/kg	
Chromium	10.2	0.5	mg/kg	
Cobalt	8.7	0.5	mg/kg	
Copper	19.0	0.5	mg/kg	
Iron	15,400	5.0	mg/kg	
Lead	9.9	0.5	mg/kg	
Magnesium	36,800	50	mg/kg	
Manganese	331	0.5	mg/kg	
Nickel	17.6	0.5	mg/kg	
Potassium	1,830	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	482	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	14.7	1.0	mg/kg	
Zinc	38.5	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 01/10/19				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2				
Method: 9045D 2004				
Analysis Date: 01/14/19 13:00				
pH @ 25°C, 1:2	8.94		Units	
TCLP Extraction				
Method: 1311				
Analysis Date: 01/11/19				
TCLP Extraction	Complete			



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IL ELAP / NELAC Accreditation # 100292

Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO-19
Sample ID: 1627V2-46-01 (4-8)
Sample No: 19-0138-011

Date Collected: 01/09/19
Time Collected: 11:45
Date Received: 01/09/19
Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 01/16/19		Preparation Date: 01/15/19		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.4	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.5	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: 01/15/19				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 01/11/19				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A				
Analysis Date: 01/15/19		Preparation Date: 01/14/19		
Arsenic	0.074	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	0.113	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.200	0.005	mg/L	
Iron	164	0.1	mg/L	
Lead	0.065	0.005	mg/L	
Manganese	0.6	0.1	mg/L	
Nickel	0.2	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-46-01 (4-8)

Sample No: 19-0138-011

Date Collected: 01/09/19

Time Collected: 11:45

Date Received: 01/09/19

Date Reported: 01/21/19

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: 01/15/19		Preparation Date: 01/14/19		
Zinc	0.5	0.1	mg/L	

SPLP Mercury Method 1312	Method: 7470A			
Analysis Date: 01/17/19				
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: 99.1	86	117
5035A/8260B	d8-Toluene (Surr)	%R: 99.4	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 107.9	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R: 125.4	59	131
8270C	2-Fluorobiphenyl (Surr)	%R: 71.2	45	112
8270C	2-Fluorophenol (Surr)	%R: 50.8	41	84
8270C	d14-Terphenyl (Surr)	%R: 90.8	56	120
8270C	d5-Nitrobenzene (Surr)	%R: 66.4	35	105
8270C	Phenol-d5 (surr)	%R: 63.2	50	100



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO-19
Sample ID: 1627V2-48-01 (0-4)
Sample No: 19-0138-014

Date Collected: 01/09/19
Time Collected: 11:28
Date Received: 01/09/19
Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total Method: 2540B				
Analysis Date: 01/09/19				
Total Solids	78.58		%	
Volatile Organic Compounds Method: 5035A/8260B				
Analysis Date: 01/15/19				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-48-01 (0-4)

Sample No: 19-0138-014

Date Collected: 01/09/19

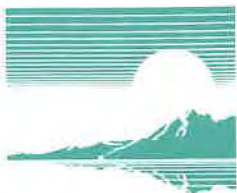
Time Collected: 11:28

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds				
Method: 5035A/8260B				
Analysis Date: 01/15/19				
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: 01/14/19		Preparation Date: 01/13/19		
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO-19
Sample ID: 1627V2-48-01 (0-4)
Sample No: 19-0138-014

Date Collected: 01/09/19
Time Collected: 11:28
Date Received: 01/09/19
Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		
Analysis Date: 01/14/19		Preparation Method 3540C		
		Preparation Date: 01/13/19		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO-19
Sample ID: 1627V2-48-01 (0-4)
Sample No: 19-0138-014

Date Collected: 01/09/19
Time Collected: 11:28
Date Received: 01/09/19
Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 01/14/19		Preparation Date: 01/13/19		
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: 01/10/19		Preparation Date: 01/10/19		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.4	1.0	mg/kg	
Barium	104	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	3,790	50	mg/kg	
Chromium	13.4	0.5	mg/kg	
Cobalt	6.4	0.5	mg/kg	
Copper	11.5	0.5	mg/kg	
Iron	14,500	5.0	mg/kg	
Lead	20.7	0.5	mg/kg	
Magnesium	2,760	50	mg/kg	
Manganese	556	0.5	mg/kg	
Nickel	12.2	0.5	mg/kg	
Potassium	1,610	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	539	50	mg/kg	
Thallium	1.7	1.0	mg/kg	
Vanadium	25.5	1.0	mg/kg	
Zinc	43.1	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 01/10/19				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2				
Method: 9045D 2004				
Analysis Date: 01/14/19 13:00				
pH @ 25°C, 1:2	8.05		Units	
TCLP Extraction				
Method: 1311				
Analysis Date: 01/11/19				
TCLP Extraction	Complete			



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO-19
Sample ID: 1627V2-48-01 (0-4)
Sample No: 19-0138-014

Date Collected: 01/09/19
Time Collected: 11:28
Date Received: 01/09/19
Date Reported: 01/21/19

Results are reported on a dry weight basis.

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 01/16/19 Preparation Date: 01/15/19				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	1.1	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: 01/16/19				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 01/11/19				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A				
Analysis Date: 01/15/19 Preparation Date: 01/14/19				
Arsenic	0.011	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	0.076	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.052	0.005	mg/L	
Iron	74.6	0.1	mg/L	
Lead	0.046	0.005	mg/L	
Manganese	0.6	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-48-01 (0-4)

Sample No: 19-0138-014

Date Collected: 01/09/19

Time Collected: 11:28

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312 Analysis Date: 01/15/19	Method: 6010C	Preparation Method 3010A Preparation Date: 01/14/19		
Zinc	0.3	0.1	mg/L	
SPLP Mercury Method 1312 Analysis Date: 01/17/19	Method: 7470A			
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: 98	86	117
5035A/8260B	d8-Toluene (Surr)	%R: 98	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 102	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R: 117.2	59	131
8270C	2-Fluorobiphenyl (Surr)	%R: 74.8	45	112
8270C	2-Fluorophenol (Surr)	%R: 51.4	41	84
8270C	d14-Terphenyl (Surr)	%R: 100.3	56	120
8270C	d5-Nitrobenzene (Surr)	%R: 70.8	35	105
8270C	Phenol-d5 (surr)	%R: 65.8	50	100



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO-19
Sample ID: 1627V2-48-01 (4-8)
Sample No: 19-0138-015

Date Collected: 01/09/19
Time Collected: 11:32
Date Received: 01/09/19
Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total Method: 2540B				
Analysis Date: 01/09/19				
Total Solids	88.61		%	
Volatile Organic Compounds Method: 5035A/8260B				
Analysis Date: 01/15/19				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-48-01 (4-8)

Sample No: 19-0138-015

Date Collected: 01/09/19

Time Collected: 11:32

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Results are reported on a dry weight basis.				
Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/15/19				
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: 01/15/19		Preparation Date: 01/14/19	
Acenaphthene	< 330	330	ug/kg
Acenaphthylene	< 330	330	ug/kg
Anthracene	< 330	330	ug/kg
Benzidine	< 330	330	ug/kg
Benzo(a)anthracene	< 330	330	ug/kg
Benzo(a)pyrene	< 90	90	ug/kg
Benzo(b)fluoranthene	< 330	330	ug/kg
Benzo(k)fluoranthene	< 330	330	ug/kg
Benzo(ghi)perylene	< 330	330	ug/kg
Benzoic acid	< 330	330	ug/kg
Benzyl alcohol	< 330	330	ug/kg
bis(2-Chloroethoxy)methane	< 330	330	ug/kg
bis(2-Chloroethyl)ether	< 330	330	ug/kg
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg
4-Bromophenyl phenyl ether	< 330	330	ug/kg
Butyl benzyl phthalate	< 330	330	ug/kg
Carbazole	< 330	330	ug/kg
4-Chloroaniline	< 330	330	ug/kg
4-Chloro-3-methylphenol	< 330	330	ug/kg
2-Chloronaphthalene	< 330	330	ug/kg
2-Chlorophenol	< 330	330	ug/kg
4-Chlorophenyl phenyl ether	< 330	330	ug/kg
Chrysene	< 330	330	ug/kg
Dibenzo(a,h)anthracene	< 90	90	ug/kg
Dibenzofuran	< 330	330	ug/kg
1,2-Dichlorobenzene	< 330	330	ug/kg
1,3-Dichlorobenzene	< 330	330	ug/kg
1,4-Dichlorobenzene	< 330	330	ug/kg
3,3'-Dichlorobenzidine	< 660	660	ug/kg
2,4-Dichlorophenol	< 330	330	ug/kg



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO-19
Sample ID: 1627V2-48-01 (4-8)
Sample No: 19-0138-015

Date Collected: 01/09/19
Time Collected: 11:32
Date Received: 01/09/19
Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 01/15/19		Preparation Date: 01/14/19		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO-19
Sample ID: 1627V2-48-01 (4-8)
Sample No: 19-0138-015

Date Collected: 01/09/19
Time Collected: 11:32
Date Received: 01/09/19
Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 01/15/19		Preparation Date: 01/14/19		
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: 01/10/19		Preparation Date: 01/10/19		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.3	1.0	mg/kg	
Barium	23.7	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	56,700	50	mg/kg	
Chromium	10.4	0.5	mg/kg	
Cobalt	5.5	0.5	mg/kg	
Copper	14.7	0.5	mg/kg	
Iron	12,900	5.0	mg/kg	
Lead	6.5	0.5	mg/kg	
Magnesium	33,500	50	mg/kg	
Manganese	253	0.5	mg/kg	
Nickel	14.6	0.5	mg/kg	
Potassium	1,800	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	229	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	12.7	1.0	mg/kg	
Zinc	37.9	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 01/10/19				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2				
Method: 9045D 2004				
Analysis Date: 01/14/19 13:00				
pH @ 25°C, 1:2	8.49		Units	
TCLP Extraction				
Method: 1311				
Analysis Date: 01/11/19				
TCLP Extraction	Complete			



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO-19
Sample ID: 1627V2-48-01 (4-8)
Sample No: 19-0138-015

Date Collected: 01/09/19
Time Collected: 11:32
Date Received: 01/09/19
Date Reported: 01/21/19

Results are reported on a dry weight basis.

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 01/16/19		Preparation Date: 01/15/19		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.4	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.9	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 01/16/19				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 01/11/19				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A				
Analysis Date: 01/15/19		Preparation Date: 01/14/19		
Arsenic	0.046	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	0.101	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.143	0.005	mg/L	
Iron	125	0.1	mg/L	
Lead	0.044	0.005	mg/L	
Manganese	0.6	0.1	mg/L	
Nickel	0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-48-01 (4-8)

Sample No: 19-0138-015

Date Collected: 01/09/19

Time Collected: 11:32

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312 Analysis Date: 01/15/19	Method: 6010C	Preparation Method 3010A Preparation Date: 01/14/19		
Zinc	0.4	0.1	mg/L	
SPLP Mercury Method 1312 Analysis Date: 01/17/19	Method: 7470A			
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: 100.4	86	117
5035A/8260B	d8-Toluene (Surr)	%R: 98.9	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 105.8	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R: 103.8	59	131
8270C	2-Fluorobiphenyl (Surr)	%R: 64	45	112
8270C	2-Fluorophenol (Surr)	%R: 49.6	41	84
8270C	d14-Terphenyl (Surr)	%R: 79.9	56	120
8270C	d5-Nitrobenzene (Surr)	%R: 62	35	105
8270C	Phenol-d5 (surr)	%R: 58	50	100



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO-19
Sample ID: 1627V2-50-01 (0-2)
Sample No: 19-0138-019

Date Collected: 01/09/19
Time Collected: 9:31
Date Received: 01/09/19
Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total Method: 2540B				
Analysis Date: 01/09/19				
Total Solids	79.98		%	
Volatile Organic Compounds Method: 5035A/8260B				
Analysis Date: 01/15/19				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO-19
Sample ID: 1627V2-50-01 (0-2)
Sample No: 19-0138-019

Date Collected: 01/09/19
Time Collected: 9:31
Date Received: 01/09/19
Date Reported: 01/21/19

Results are reported on a dry weight basis.

Results are reported on a dry weight basis.				
Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds				
Method: 5035A/8260B				
Analysis Date: 01/15/19				
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: 01/15/19		Preparation Date: 01/14/19		
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	279	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-50-01 (0-2)

Sample No: 19-0138-019

Date Collected: 01/09/19

Time Collected: 9:31

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Preparation Method 3540C		
Analysis Date: 01/15/19		Preparation Date: 01/14/19		
Method: 8270C				
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	536	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	442	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-50-01 (0-2)

Sample No: 19-0138-019

Date Collected: 01/09/19

Time Collected: 9:31

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 01/15/19		Preparation Date: 01/14/19		
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: 01/10/19		Preparation Date: 01/10/19		
Antimony	1.6	1.0	mg/kg	
Arsenic	6.7	1.0	mg/kg	
Barium	72.3	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	26,200	50	mg/kg	
Chromium	13.5	0.5	mg/kg	
Cobalt	7.2	0.5	mg/kg	
Copper	16.0	0.5	mg/kg	
Iron	14,900	5.0	mg/kg	
Lead	82.1	0.5	mg/kg	
Magnesium	15,500	50	mg/kg	
Manganese	508	0.5	mg/kg	
Nickel	15.3	0.5	mg/kg	
Potassium	978	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	328	50	mg/kg	
Thallium	1.2	1.0	mg/kg	
Vanadium	21.1	1.0	mg/kg	
Zinc	57.6	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 01/10/19				
Mercury	0.07	0.05	mg/kg	
pH @ 25°C, 1:2				
Method: 9045D 2004				
Analysis Date: 01/14/19 13:00				
pH @ 25°C, 1:2	8.31		Units	
TCLP Extraction				
Method: 1311				
Analysis Date: 01/11/19				
TCLP Extraction	Complete			



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO-19
Sample ID: 1627V2-50-01 (0-2)
Sample No: 19-0138-019

Date Collected: 01/09/19
Time Collected: 9:31
Date Received: 01/09/19
Date Reported: 01/21/19

Results are reported on a dry weight basis.

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 01/16/19		Preparation Date: 01/15/19		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	0.5	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: 01/16/19				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 01/11/19				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A				
Analysis Date: 01/15/19		Preparation Date: 01/14/19		
Arsenic	0.039	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	0.110	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.107	0.005	mg/L	
Iron	120	0.1	mg/L	
Lead	0.252	0.005	mg/L	
Manganese	1.0	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	



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IL ELAP / NELAC Accreditation # 100292

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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO-19
Sample ID: 1627V2-50-01 (0-2)
Sample No: 19-0138-019

Date Collected: 01/09/19
Time Collected: 9:31
Date Received: 01/09/19
Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312 Analysis Date: 01/15/19	Method: 6010C	Preparation Method 3010A Preparation Date: 01/14/19		
Zinc	0.5	0.1	mg/L	
SPLP Mercury Method 1312 Analysis Date: 01/17/19	Method: 7470A			
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: 99.3	86	117
5035A/8260B	d8-Toluene (Surr)	%R: 99.8	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 104.6	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R: 112	59	131
8270C	2-Fluorobiphenyl (Surr)	%R: 76.8	45	112
8270C	2-Fluorophenol (Surr)	%R: 50.2	41	84
8270C	d14-Terphenyl (Surr)	%R: 84	56	120
8270C	d5-Nitrobenzene (Surr)	%R: 70.3	35	105
8270C	Phenol-d5 (surr)	%R: 62.4	50	100



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-50-02 (0-2)

Sample No: 19-0138-020

Date Collected: 01/09/19

Time Collected: 9:24

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/09/19				
Total Solids	76.18		%	

Volatile Organic Compounds **Method: 5035A/8260B**

Analysis Date: 01/15/19

Acetone	< 200	200	ug/kg
Benzene	< 5.0	5.0	ug/kg
Bromodichloromethane	< 5.0	5.0	ug/kg
Bromoform	< 5.0	5.0	ug/kg
Bromomethane	< 10.0	10.0	ug/kg
2-Butanone (MEK)	< 100	100	ug/kg
Carbon disulfide	< 5.0	5.0	ug/kg
Carbon tetrachloride	< 5.0	5.0	ug/kg
Chlorobenzene	< 5.0	5.0	ug/kg
Chlorodibromomethane	< 5.0	5.0	ug/kg
Chloroethane	< 10.0	10.0	ug/kg
Chloroform	< 5.0	5.0	ug/kg
Chloromethane	< 10.0	10.0	ug/kg
1,1-Dichloroethane	< 5.0	5.0	ug/kg
1,2-Dichloroethane	< 5.0	5.0	ug/kg
1,1-Dichloroethene	< 5.0	5.0	ug/kg
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg
1,2-Dichloropropane	< 5.0	5.0	ug/kg
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg
Ethylbenzene	< 5.0	5.0	ug/kg
2-Hexanone	< 10.0	10.0	ug/kg
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg
Methylene chloride	< 20.0	20.0	ug/kg
Styrene	< 5.0	5.0	ug/kg
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg
Tetrachloroethene	< 5.0	5.0	ug/kg
Toluene	< 5.0	5.0	ug/kg
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg
Trichloroethene	< 5.0	5.0	ug/kg



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-50-02 (0-2)

Sample No: 19-0138-020

Date Collected: 01/09/19

Time Collected: 9:24

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/15/19				
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: 01/15/19			Preparation Date: 01/14/19	
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-50-02 (0-2)

Sample No: 19-0138-020

Date Collected: 01/09/19

Time Collected: 9:24

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 01/15/19		Preparation Date: 01/14/19		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO-19
Sample ID: 1627V2-50-02 (0-2)
Sample No: 19-0138-020

Date Collected: 01/09/19
Time Collected: 9:24
Date Received: 01/09/19
Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 01/15/19		Preparation Date: 01/14/19		
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: 01/10/19		Preparation Date: 01/10/19		
Antimony	1.5	1.0	mg/kg	
Arsenic	6.7	1.0	mg/kg	
Barium	93.9	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	5,710	50	mg/kg	
Chromium	17.2	0.5	mg/kg	
Cobalt	8.9	0.5	mg/kg	
Copper	13.3	0.5	mg/kg	
Iron	19,500	5.0	mg/kg	
Lead	11.4	0.5	mg/kg	
Magnesium	3,930	50	mg/kg	
Manganese	612	0.5	mg/kg	
Nickel	16.2	0.5	mg/kg	
Potassium	1,230	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	914	50	mg/kg	
Thallium	1.5	1.0	mg/kg	
Vanadium	27.0	1.0	mg/kg	
Zinc	40.1	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 01/10/19				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2				
Method: 9045D 2004				
Analysis Date: 01/16/19 11:30				
pH @ 25°C, 1:2	8.64		Units	
TCLP Extraction				
Method: 1311				
Analysis Date: 01/11/19				
TCLP Extraction	Complete			



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO-19
Sample ID: 1627V2-50-02 (0-2)
Sample No: 19-0138-020

Date Collected: 01/09/19
Time Collected: 9:24
Date Received: 01/09/19
Date Reported: 01/21/19

Results are reported on a dry weight basis.

Results are reported on a dryweight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 01/16/19 Preparation Date: 01/15/19				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	0.3	0.1	mg/L	
Lead	< 0.005	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	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 01/16/19				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 01/11/19				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A				
Analysis Date: 01/15/19 Preparation Date: 01/14/19				
Arsenic	0.022	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.173	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.118	0.005	mg/L	
Iron	165	0.1	mg/L	
Lead	0.047	0.005	mg/L	
Manganese	0.7	0.1	mg/L	
Nickel	0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-50-02 (0-2)

Sample No: 19-0138-020

Date Collected: 01/09/19

Time Collected: 9:24

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		
Analysis Date: 01/15/19		Preparation Method 3010A		
		Preparation Date: 01/14/19		
Zinc	0.4	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 01/17/19				
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: 96.8	86	117
5035A/8260B	d8-Toluene (Surr)	%R: 97.9	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 98.4	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R: 116.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R: 72.5	45	112
8270C	2-Fluorophenol (Surr)	%R: 52.8	41	84
8270C	d14-Terphenyl (Surr)	%R: 94.2	56	120
8270C	d5-Nitrobenzene (Surr)	%R: 69.6	35	105
8270C	Phenol-d5 (surr)	%R: 66.8	50	100



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO-19
Sample ID: 1627V2-56-01 (0-2)
Sample No: 19-0138-025

Date Collected: 01/09/19
Time Collected: 10:28
Date Received: 01/09/19
Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total Method: 2540B				
Analysis Date: 01/09/19				
Total Solids	79.95		%	
Volatile Organic Compounds Method: 5035A/8260B				
Analysis Date: 01/15/19				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO-19
Sample ID: 1627V2-56-01 (0-2)
Sample No: 19-0138-025

Date Collected: 01/09/19
Time Collected: 10:28
Date Received: 01/09/19
Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds				
Method: 5035A/8260B				
Analysis Date: 01/15/19				
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				
Analysis Date: 01/16/19				
		Preparation Method 3540C		
		Preparation Date: 01/14/19		
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	379	90	ug/kg	
Benzo(b)fluoranthene	421	330	ug/kg	
Benzo(k)fluoranthene	380	330	ug/kg	
Benzo(ghi)perylene	368	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	381	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-56-01 (0-2)

Sample No: 19-0138-025

Date Collected: 01/09/19

Time Collected: 10:28

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 01/16/19		Preparation Date: 01/14/19		
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	805	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	376	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	587	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-56-01 (0-2)

Sample No: 19-0138-025

Date Collected: 01/09/19

Time Collected: 10:28

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 01/16/19		Preparation Date: 01/14/19		
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: 01/10/19		Preparation Date: 01/10/19		
Antimony	1.2	1.0	mg/kg	
Arsenic	3.1	1.0	mg/kg	
Barium	75.1	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	54,600	50	mg/kg	
Chromium	16.2	0.5	mg/kg	
Cobalt	7.1	0.5	mg/kg	
Copper	13.5	0.5	mg/kg	
Iron	11,100	5.0	mg/kg	
Lead	16.8	0.5	mg/kg	
Magnesium	31,200	50	mg/kg	
Manganese	453	0.5	mg/kg	
Nickel	9.2	0.5	mg/kg	
Potassium	915	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	759	50	mg/kg	
Thallium	1.3	1.0	mg/kg	
Vanadium	20.5	1.0	mg/kg	
Zinc	48.7	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 01/11/19				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2				
Method: 9045D 2004				
Analysis Date: 01/15/19				
pH @ 25°C, 1:2	8.57		Units	
TCLP Extraction				
Method: 1311				
Analysis Date: 01/11/19				
TCLP Extraction	Complete			



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-56-01 (0-2)

Sample No: 19-0138-025

Date Collected: 01/09/19

Time Collected: 10:28

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 01/16/19		Preparation Date: 01/16/19		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	1.1	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: 01/16/19				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 01/11/19				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A				
Analysis Date: 01/15/19		Preparation Date: 01/14/19		
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	0.035	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.028	0.005	mg/L	
Iron	28.6	0.1	mg/L	
Lead	0.030	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	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO-19
Sample ID: 1627V2-56-01 (0-2)
Sample No: 19-0138-025

Date Collected: 01/09/19
Time Collected: 10:28
Date Received: 01/09/19
Date Reported: 01/21/19

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: 01/15/19 Preparation Date: 01/14/19				
Zinc	0.2	0.1	mg/L	
SPLP Mercury Method 1312 Method: 7470A				
Analysis Date: 01/17/19				
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: 100.1	86	117
5035A/8260B	d8-Toluene (Surr)	%R: 99.7	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 105.8	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R: 117.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R: 78.4	45	112
8270C	2-Fluorophenol (Surr)	%R: 55.5	41	84
8270C	d14-Terphenyl (Surr)	%R: 83.1	56	120
8270C	d5-Nitrobenzene (Surr)	%R: 71.8	35	105
8270C	Phenol-d5 (surr)	%R: 68.5	50	100



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-57-01 (0-4)

Sample No: 19-0138-029

Date Collected: 01/09/19

Time Collected: 10:56

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540B		
Analysis Date: 01/09/19				
Total Solids	77.29		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/15/19				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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IL ELAP / NELAC Accreditation # 100292

Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-57-01 (0-4)

Sample No: 19-0138-029

Date Collected: 01/09/19

Time Collected: 10:56

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/15/19				
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: 01/16/19		Preparation Date: 01/14/19		
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	164	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-57-01 (0-4)

Sample No: 19-0138-029

Date Collected: 01/09/19

Time Collected: 10:56

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 01/16/19		Preparation Date: 01/14/19		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-57-01 (0-4)

Sample No: 19-0138-029

Date Collected: 01/09/19

Time Collected: 10:56

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 01/16/19		Preparation Date: 01/14/19		
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: 01/10/19		Preparation Date: 01/10/19		
Antimony	1.4	1.0	mg/kg	
Arsenic	5.8	1.0	mg/kg	
Barium	82.0	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	42,100	50	mg/kg	
Chromium	14.2	0.5	mg/kg	
Cobalt	6.8	0.5	mg/kg	
Copper	17.7	0.5	mg/kg	
Iron	15,300	5.0	mg/kg	
Lead	54.4	0.5	mg/kg	
Magnesium	23,500	50	mg/kg	
Manganese	525	0.5	mg/kg	
Nickel	13.0	0.5	mg/kg	
Potassium	1,100	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	470	50	mg/kg	
Thallium	1.3	1.0	mg/kg	
Vanadium	24.3	1.0	mg/kg	
Zinc	63.7	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 01/11/19				
Mercury	0.07	0.05	mg/kg	
pH @ 25°C, 1:2				
Method: 9045D 2004				
Analysis Date: 01/15/19				
pH @ 25°C, 1:2	8.57		Units	
TCLP Extraction				
Method: 1311				
Analysis Date: 01/11/19				
TCLP Extraction	Complete			



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-57-01 (0-4)

Sample No: 19-0138-029

Date Collected: 01/09/19

Time Collected: 10:56

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311		Method: 6010C		
Analysis Date: 01/16/19		Preparation Method 3010A Preparation Date: 01/16/19		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	0.2	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: 01/16/19				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction		Method: 1312		
Analysis Date: 01/11/19				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		
Analysis Date: 01/15/19		Preparation Method 3010A Preparation Date: 01/14/19		
Arsenic	0.023	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	0.101	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.093	0.005	mg/L	
Iron	106	0.1	mg/L	
Lead	0.155	0.005	mg/L	
Manganese	0.8	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-57-01 (0-4)

Sample No: 19-0138-029

Date Collected: 01/09/19

Time Collected: 10:56

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312 Analysis Date: 01/15/19	Method: 6010C	Preparation Method 3010A Preparation Date: 01/14/19		
Zinc	0.5	0.1	mg/L	

SPLP Mercury Method 1312 Analysis Date: 01/17/19	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	

Sample QC Summary:		Surrogate Recovery		%R Limits	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	100.7	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.7	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	106.6	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	113.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	73.4	45	112
8270C	2-Fluorophenol (Surr)	%R:	41.2	41	84
8270C	d14-Terphenyl (Surr)	%R:	82.4	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	61.5	35	105
8270C	Phenol-d5 (surr)	%R:	57.6	50	100



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO-19
Sample ID: 1627V2-57-01 (4-8)
Sample No: 19-0138-030

Date Collected: 01/09/19
Time Collected: 10:58
Date Received: 01/09/19
Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total Method: 2540B				
Analysis Date: 01/09/19				
Total Solids	74.08		%	
Volatile Organic Compounds Method: 5035A/8260B				
Analysis Date: 01/15/19				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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IL ELAP / NELAC Accreditation # 100292

Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-57-01 (4-8)

Sample No: 19-0138-030

Date Collected: 01/09/19

Time Collected: 10:58

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/15/19				
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		
Analysis Date: 01/16/19		Preparation Method 3540C		
		Preparation Date: 01/14/19		
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-57-01 (4-8)

Sample No: 19-0138-030

Date Collected: 01/09/19

Time Collected: 10:58

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 01/16/19		Preparation Date: 01/14/19		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-57-01 (4-8)

Sample No: 19-0138-030

Date Collected: 01/09/19

Time Collected: 10:58

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 01/16/19		Preparation Date: 01/14/19		
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: 01/10/19		Preparation Date: 01/10/19		
Antimony	1.6	1.0	mg/kg	
Arsenic	4.2	1.0	mg/kg	
Barium	71.7	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	3,200	50	mg/kg	
Chromium	15.6	0.5	mg/kg	
Cobalt	4.3	0.5	mg/kg	
Copper	15.8	0.5	mg/kg	
Iron	20,800	5.0	mg/kg	
Lead	9.5	0.5	mg/kg	
Magnesium	3,490	50	mg/kg	
Manganese	157	0.5	mg/kg	
Nickel	12.9	0.5	mg/kg	
Potassium	718	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	390	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	24.5	1.0	mg/kg	
Zinc	44.4	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 01/11/19				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2				
Method: 9045D 2004				
Analysis Date: 01/15/19				
pH @ 25°C, 1:2	8.23		Units	
TCLP Extraction				
Method: 1311				
Analysis Date: 01/11/19				
TCLP Extraction	Complete			



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-57-01 (4-8)

Sample No: 19-0138-030

Date Collected: 01/09/19

Time Collected: 10:58

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311		Method: 6010C		
Analysis Date: 01/16/19		Preparation Method 3010A		
		Preparation Date: 01/16/19		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	0.3	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311		Method: 7470A		
Analysis Date: 01/16/19				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction		Method: 1312		
Analysis Date: 01/11/19				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		
Analysis Date: 01/16/19		Preparation Method 3010A		
		Preparation Date: 01/14/19		
Arsenic	0.050	0.010	mg/L	
Barium	< 2.0	1.0	mg/L	W
Beryllium	0.005	0.004	mg/L	
Cadmium	< 0.010	0.005	mg/L	W
Chromium	0.146	0.005	mg/L	
Cobalt	< 0.2	0.1	mg/L	W
Copper	0.185	0.005	mg/L	
Iron	229	0.1	mg/L	
Lead	0.044	0.005	mg/L	
Manganese	0.5	0.1	mg/L	
Nickel	0.1	0.1	mg/L	
Selenium	< 0.020	0.010	mg/L	W
Silver	0.005	0.005	mg/L	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-57-01 (4-8)

Sample No: 19-0138-030

Date Collected: 01/09/19

Time Collected: 10:58

Date Received: 01/09/19

Date Reported: 01/21/19

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: 01/16/19		Preparation Date: 01/14/19		
Zinc	0.4	0.1	mg/L	

SPLP Mercury Method 1312	Method: 7470A			
Analysis Date: 01/17/19				
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: 99.3	86	117
5035A/8260B	d8-Toluene (Surr)	%R: 98.6	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 101.3	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R: 97.9	59	131
8270C	2-Fluorobiphenyl (Surr)	%R: 65.5	45	112
8270C	2-Fluorophenol (Surr)	%R: 49.2	41	84
8270C	d14-Terphenyl (Surr)	%R: 77.9	56	120
8270C	d5-Nitrobenzene (Surr)	%R: 67.3	35	105
8270C	Phenol-d5 (surr)	%R: 62.4	50	100



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO-19
Sample ID: 1627V2-59-02 (0-3)
Sample No: 19-0138-038

Date Collected: 01/09/19
Time Collected: 10:32
Date Received: 01/09/19
Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total Method: 2540B				
Analysis Date: 01/10/19				
Total Solids	78.48		%	
Volatile Organic Compounds Method: 5035A/8260B				
Analysis Date: 01/15/19				
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	6.2	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO-19
Sample ID: 1627V2-59-02 (0-3)
Sample No: 19-0138-038

Date Collected: 01/09/19
Time Collected: 10:32
Date Received: 01/09/19
Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds				
Method: 5035A/8260B				
Analysis Date: 01/15/19				
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				
Preparation Date: 01/15/19				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	507	330	ug/kg	
Benzo(a)pyrene	606	90	ug/kg	
Benzo(b)fluoranthene	655	330	ug/kg	
Benzo(k)fluoranthene	578	330	ug/kg	
Benzo(ghi)perylene	363	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	652	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-59-02 (0-3)

Sample No: 19-0138-038

Date Collected: 01/09/19

Time Collected: 10:32

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 01/16/19		Preparation Date: 01/15/19		
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	1,330	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	392	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	511	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	977	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO-19
Sample ID: 1627V2-59-02 (0-3)
Sample No: 19-0138-038

Date Collected: 01/09/19
Time Collected: 10:32
Date Received: 01/09/19
Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 01/16/19		Preparation Date: 01/15/19		
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: 01/11/19		Preparation Date: 01/11/19		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.9	1.0	mg/kg	
Barium	110	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	9,340	50	mg/kg	
Chromium	13.7	0.5	mg/kg	
Cobalt	8.2	0.5	mg/kg	
Copper	18.1	0.5	mg/kg	
Iron	14,400	5.0	mg/kg	
Lead	85.9	0.5	mg/kg	
Magnesium	5,960	50	mg/kg	
Manganese	780	0.5	mg/kg	
Nickel	13.4	0.5	mg/kg	
Potassium	1,070	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	248	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	25.2	1.0	mg/kg	
Zinc	169	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 01/11/19				
Mercury	0.10	0.05	mg/kg	
pH @ 25°C, 1:2				
Method: 9045D 2004				
Analysis Date: 01/15/19				
pH @ 25°C, 1:2	8.32		Units	
TCLP Extraction				
Method: 1311				
Analysis Date: 01/11/19				
TCLP Extraction	Complete			



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IL ELAP / NELAC Accreditation # 100292

Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO-19
Sample ID: 1627V2-59-02 (0-3)
Sample No: 19-0138-038

Date Collected: 01/09/19
Time Collected: 10:32
Date Received: 01/09/19
Date Reported: 01/21/19

Results are reported on a dry weight basis.

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311		Method: 6010C		
Analysis Date: 01/18/19		Preparation Method 3010A		
		Preparation Date: 01/16/19		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	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: 01/16/19				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction		Method: 1312		
Analysis Date: 01/11/19				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		
Analysis Date: 01/15/19		Preparation Method 3010A		
		Preparation Date: 01/14/19		
Arsenic	0.035	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	0.131	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.127	0.005	mg/L	
Iron	120	0.1	mg/L	
Lead	0.161	0.005	mg/L	
Manganese	0.9	0.1	mg/L	
Nickel	0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-59-02 (0-3)

Sample No: 19-0138-038

Date Collected: 01/09/19

Time Collected: 10:32

Date Received: 01/09/19

Date Reported: 01/21/19

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: 01/15/19 Preparation Date: 01/14/19				
Zinc	0.5	0.1	mg/l	
SPLP Mercury Method 1312 Method: 7470A Analysis Date: 01/17/19				
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: 100.1	86	117
5035A/8260B	d8-Toluene (Surr)	%R: 98.9	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 99.9	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R: 86.7	59	131
8270C	2-Fluorobiphenyl (Surr)	%R: 78.7	45	112
8270C	2-Fluorophenol (Surr)	%R: 55.8	41	84
8270C	d14-Terphenyl (Surr)	%R: 71.3	56	120
8270C	d5-Nitrobenzene (Surr)	%R: 69.6	35	105
8270C	Phenol-d5 (surr)	%R: 65.3	50	100



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-65-01 (0-5)

Sample No: 19-0138-039

Date Collected: 01/09/19

Time Collected: 10:40

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total Method: 2540B				
Analysis Date: 01/10/19				
Total Solids	85.19		%	
Volatile Organic Compounds Method: 5035A/8260B				
Analysis Date: 01/15/19				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO-19
Sample ID: 1627V2-65-01 (0-5)
Sample No: 19-0138-039

Date Collected: 01/09/19
Time Collected: 10:40
Date Received: 01/09/19
Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds				
Method: 5035A/8260B				
Analysis Date: 01/15/19				
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: 01/16/19		Preparation Date: 01/15/19		
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-65-01 (0-5)

Sample No: 19-0138-039

Date Collected: 01/09/19

Time Collected: 10:40

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 01/16/19		Preparation Date: 01/15/19		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-65-01 (0-5)

Sample No: 19-0138-039

Date Collected: 01/09/19

Time Collected: 10:40

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 01/16/19		Preparation Date: 01/15/19		
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: 01/11/19		Preparation Date: 01/11/19		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.7	1.0	mg/kg	
Barium	46.5	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	94,600	50	mg/kg	
Chromium	10.7	0.5	mg/kg	
Cobalt	3.8	0.5	mg/kg	
Copper	13.1	0.5	mg/kg	
Iron	11,600	5.0	mg/kg	
Lead	7.8	0.5	mg/kg	
Magnesium	36,200	50	mg/kg	
Manganese	225	0.5	mg/kg	
Nickel	11.7	0.5	mg/kg	
Potassium	2,000	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	196	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	15.1	1.0	mg/kg	
Zinc	27.9	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 01/11/19				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2				
Method: 9045D 2004				
Analysis Date: 01/15/19				
pH @ 25°C, 1:2	8.63		Units	
TCLP Extraction				
Method: 1311				
Analysis Date: 01/11/19				
TCLP Extraction	Complete			



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO-19
Sample ID: 1627V2-65-01 (0-5)
Sample No: 19-0138-039

Date Collected: 01/09/19
Time Collected: 10:40
Date Received: 01/09/19
Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311		Method: 6010C		
Analysis Date: 01/18/19		Preparation Method 3010A		
		Preparation Date: 01/16/19		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	0.015	0.005	mg/L	
Manganese	4.5	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: 01/16/19				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction		Method: 1312		
Analysis Date: 01/11/19				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		
Analysis Date: 01/15/19		Preparation Method 3010A		
		Preparation Date: 01/14/19		
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	0.030	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.033	0.005	mg/L	
Iron	34.6	0.1	mg/L	
Lead	0.015	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	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO-19
Sample ID: 1627V2-65-01 (0-5)
Sample No: 19-0138-039

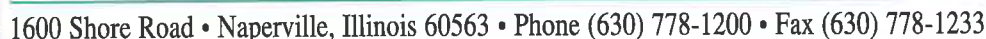
Date Collected: 01/09/19
Time Collected: 10:40
Date Received: 01/09/19
Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		
Analysis Date: 01/15/19		Preparation Method 3010A		
		Preparation Date: 01/14/19		
Zinc	< 0.1	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 01/17/19				
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: 101.4	86	117
5035A/8260B	d8-Toluene (Surr)	%R: 100.6	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 104.2	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R: 104.3	59	131
8270C	2-Fluorobiphenyl (Surr)	%R: 63.7	45	112
8270C	2-Fluorophenol (Surr)	%R: 51.1	41	84
8270C	d14-Terphenyl (Surr)	%R: 77.4	56	120
8270C	d5-Nitrobenzene (Surr)	%R: 59	35	105
8270C	Phenol-d5 (surr)	%R: 61.8	50	100



Acetone	< 200	200	ug/kg
Benzene	< 5.0	5.0	ug/kg
Bromodichloromethane	< 5.0	5.0	ug/kg
Bromoform	< 5.0	5.0	ug/kg
Bromomethane	< 10.0	10.0	ug/kg
2-Butanone (MEK)	< 100	100	ug/kg
Carbon disulfide	< 5.0	5.0	ug/kg
Carbon tetrachloride	< 5.0	5.0	ug/kg
Chlorobenzene	< 5.0	5.0	ug/kg
Chlorodibromomethane	< 5.0	5.0	ug/kg
Chloroethane	< 10.0	10.0	ug/kg
Chloroform	< 5.0	5.0	ug/kg
Chloromethane	< 10.0	10.0	ug/kg
1,1-Dichloroethane	< 5.0	5.0	ug/kg
1,2-Dichloroethane	< 5.0	5.0	ug/kg
1,1-Dichloroethene	< 5.0	5.0	ug/kg
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg
1,2-Dichloropropane	< 5.0	5.0	ug/kg
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg
Ethylbenzene	< 5.0	5.0	ug/kg
2-Hexanone	< 10.0	10.0	ug/kg
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg
Methylene chloride	< 20.0	20.0	ug/kg
Styrene	< 5.0	5.0	ug/kg
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg
Tetrachloroethene	< 5.0	5.0	ug/kg
Toluene	< 5.0	5.0	ug/kg
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg
Trichloroethene	< 5.0	5.0	ug/kg



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO19

Sample ID: 162V2-73-02 (0-4)

Sample No: 19-0169-008

Date Collected: 01/10/19

Time Collected: 12:45

Date Received: 01/10/19

Date Reported: 01/23/19

Results are reported on a dry weight basis.

Results are reported on a dry weight basis.				
Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/16/19				
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: 01/17/19			Preparation Date: 01/16/19	
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO19

Sample ID: 162V2-73-02 (0-4)

Sample No: 19-0169-008

Date Collected: 01/10/19

Time Collected: 12:45

Date Received: 01/10/19

Date Reported: 01/23/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 01/17/19		Preparation Date: 01/16/19		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO19

Sample ID: 162V2-DUP-12

Sample No: 19-0169-026

Date Collected: 01/10/19

Time Collected: 13:30

Date Received: 01/10/19

Date Reported: 01/23/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total Method: 2540B				
Analysis Date: 01/11/19				
Total Solids	87.81		%	
Volatile Organic Compounds Method: 5035A/8260B				
Analysis Date: 01/17/19				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO19

Sample ID: 162V2-DUP-12

Sample No: 19-0169-026

Date Collected: 01/10/19

Time Collected: 13:30

Date Received: 01/10/19

Date Reported: 01/23/19

Results are reported on a dry weight basis.

Results are reported on a dry weight basis.				
Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/17/19				
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: 01/18/19		Preparation Date: 01/17/19	
Acenaphthene	< 330	330	ug/kg
Acenaphthylene	< 330	330	ug/kg
Anthracene	< 330	330	ug/kg
Benzidine	< 330	330	ug/kg
Benzo(a)anthracene	< 330	330	ug/kg
Benzo(a)pyrene	< 90	90	ug/kg
Benzo(b)fluoranthene	< 330	330	ug/kg
Benzo(k)fluoranthene	< 330	330	ug/kg
Benzo(ghi)perylene	< 330	330	ug/kg
Benzoic acid	< 330	330	ug/kg
Benzyl alcohol	< 330	330	ug/kg
bis(2-Chloroethoxy)methane	< 330	330	ug/kg
bis(2-Chloroethyl)ether	< 330	330	ug/kg
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg
4-Bromophenyl phenyl ether	< 330	330	ug/kg
Butyl benzyl phthalate	< 330	330	ug/kg
Carbazole	< 330	330	ug/kg
4-Chloroaniline	< 330	330	ug/kg
4-Chloro-3-methylphenol	< 330	330	ug/kg
2-Chloronaphthalene	< 330	330	ug/kg
2-Chlorophenol	< 330	330	ug/kg
4-Chlorophenyl phenyl ether	< 330	330	ug/kg
Chrysene	< 330	330	ug/kg
Dibenzo(a,h)anthracene	< 90	90	ug/kg
Dibenzofuran	< 330	330	ug/kg
1,2-Dichlorobenzene	< 330	330	ug/kg
1,3-Dichlorobenzene	< 330	330	ug/kg
1,4-Dichlorobenzene	< 330	330	ug/kg
3,3'-Dichlorobenzidine	< 660	660	ug/kg
2,4-Dichlorophenol	< 330	330	ug/kg



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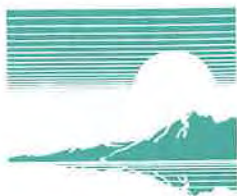
Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO19
Sample ID: 162V2-DUP-12
Sample No: 19-0169-026

Date Collected: 01/10/19
Time Collected: 13:30
Date Received: 01/10/19
Date Reported: 01/23/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Preparation Method 3540C		
Analysis Date: 01/18/19		Preparation Date: 01/17/19		
Method: 8270C				
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO19

Sample ID: 162V2-DUP-12

Sample No: 19-0169-026

Date Collected: 01/10/19

Time Collected: 13:30

Date Received: 01/10/19

Date Reported: 01/23/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Analysis Date: 01/18/19	Method: 8270C	Preparation Method 3540C		
		Preparation Date: 01/17/19		
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals				
Analysis Date: 01/16/19	Method: 6010C	Preparation Method 3050B		
		Preparation Date: 01/16/19		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.9	1.0	mg/kg	
Barium	33.0	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	68,700	50	mg/kg	
Chromium	13.8	0.5	mg/kg	
Cobalt	7.3	0.5	mg/kg	
Copper	15.9	0.5	mg/kg	
Iron	14,500	5.0	mg/kg	
Lead	7.8	0.5	mg/kg	
Magnesium	41,200	50	mg/kg	
Manganese	316	0.5	mg/kg	
Nickel	17.8	0.5	mg/kg	
Potassium	1,270	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	154	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	18.0	1.0	mg/kg	
Zinc	37.5	1.0	mg/kg	
Total Mercury				
Analysis Date: 01/14/19	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2				
Analysis Date: 01/16/19 11:30	Method: 9045D 2004			
pH @ 25°C, 1:2	8.51		Units	
TCLP Extraction				
Analysis Date: 01/15/19	Method: 1311			
TCLP Extraction	Complete			



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO19
Sample ID: 162V2-DUP-12
Sample No: 19-0169-026

Date Collected: 01/10/19
Time Collected: 13:30
Date Received: 01/10/19
Date Reported: 01/23/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 01/21/19 Preparation Date: 01/17/19				
Arsenic	0.022	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.052	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	64.8	0.1	mg/L	
Lead	0.025	0.005	mg/L	
Manganese	0.4	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.2	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 01/17/19				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 01/15/19				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A				
Analysis Date: 01/21/19 Preparation Date: 01/17/19				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	0.1	0.1	mg/L	
Lead	< 0.005	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	



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1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO19

Sample ID: 162V2-DUP-12

Sample No: 19-0169-026

Date Collected: 01/10/19

Time Collected: 13:30

Date Received: 01/10/19

Date Reported: 01/23/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312 Analysis Date: 01/21/19	Method: 6010C	Preparation Method 3010A Preparation Date: 01/17/19		
Zinc	< 0.1	0.1	mg/L	
SPLP Mercury Method 1312 Analysis Date: 01/18/19	Method: 7470A			
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:	115	*	86 - 117
5035A/8260B	d8-Toluene (Surr)	%R:	112		90 - 110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	109		77 - 120
8270C	2,4,6-Tribromophenol (Surr)	%R:	100.1		59 - 131
8270C	2-Fluorobiphenyl (Surr)	%R:	86.6		45 - 112
8270C	2-Fluorophenol (Surr)	%R:	70.4		41 - 84
8270C	d14-Terphenyl (Surr)	%R:	84.5		56 - 120
8270C	d5-Nitrobenzene (Surr)	%R:	75		35 - 105
8270C	Phenol-d5 (surr)	%R:	76.2		50 - 100



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO19

Sample ID: 162V2-73-02 (0-4)

Sample No: 19-0169-008

Date Collected: 01/10/19

Time Collected: 12:45

Date Received: 01/10/19

Date Reported: 01/23/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 01/17/19		Preparation Date: 01/16/19		
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: 01/17/19		Preparation Date: 01/14/19		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.9	1.0	mg/kg	
Barium	30.9	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	82,700	50	mg/kg	
Chromium	9.4	0.5	mg/kg	
Cobalt	5.2	0.5	mg/kg	
Copper	12.4	0.5	mg/kg	
Iron	11,600	5.0	mg/kg	
Lead	6.1	0.5	mg/kg	
Magnesium	51,000	50	mg/kg	
Manganese	304	0.5	mg/kg	
Nickel	15.0	0.5	mg/kg	
Potassium	1,040	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	130	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	14.3	1.0	mg/kg	
Zinc	28.6	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 01/14/19				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2				
Method: 9045D 2004				
Analysis Date: 01/16/19 11:30				
pH @ 25°C, 1:2	8.45		Units	
TCLP Extraction				
Method: 1311				
Analysis Date: 01/15/19				
TCLP Extraction	Complete			



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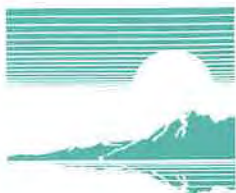
Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO19
Sample ID: 162V2-73-02 (0-4)
Sample No: 19-0169-008

Date Collected: 01/10/19
Time Collected: 12:45
Date Received: 01/10/19
Date Reported: 01/23/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 01/18/19 Preparation Date: 01/17/19				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.7	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 01/17/19				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 01/15/19				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A				
Analysis Date: 01/18/19 Preparation Date: 01/17/19				
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	0.009	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.014	0.005	mg/L	
Iron	8.2	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	



**First
Environmental
Laboratories, Inc.**

IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO19

Sample ID: 162V2-73-02 (0-4)

Sample No: 19-0169-008

Date Collected: 01/10/19

Time Collected: 12:45

Date Received: 01/10/19

Date Reported: 01/23/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		
Analysis Date: 01/18/19		Preparation Method 3010A		
		Preparation Date: 01/17/19		
Zinc	0.2	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 01/18/19				
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: 117	86	117
5035A/8260B	d8-Toluene (Surr)	%R: 114	*	90 - 110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 117		77 - 120
8270C	2,4,6-Tribromophenol (Surr)	%R: 136	*	59 - 131
8270C	2-Fluorobiphenyl (Surr)	%R: 88		45 - 112
8270C	2-Fluorophenol (Surr)	%R: 73		41 - 84
8270C	d14-Terphenyl (Surr)	%R: 111		56 - 120
8270C	d5-Nitrobenzene (Surr)	%R: 91		35 - 105
8270C	Phenol-d5 (surr)	%R: 84		50 - 100



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO19

Sample ID: 162V2-81-01 (0-5)

Sample No: 19-0169-014

Date Collected: 01/10/19

Time Collected: 12:37

Date Received: 01/10/19

Date Reported: 01/23/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total				
Method: 2540B				
Analysis Date: 01/11/19				
Total Solids	87.30		%	
Volatile Organic Compounds				
Method: 5035A/8260B				
Analysis Date: 01/16/19				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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IL ELAP / NELAC Accreditation # 100292

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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO19

Sample ID: 162V2-81-01 (0-5)

Sample No: 19-0169-014

Date Collected: 01/10/19

Time Collected: 12:37

Date Received: 01/10/19

Date Reported: 01/23/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds				
Method: 5035A/8260B				
Analysis Date: 01/16/19				
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				
Preparation Date: 01/17/19				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO19

Sample ID: 162V2-81-01 (0-5)

Sample No: 19-0169-014

Date Collected: 01/10/19

Time Collected: 12:37

Date Received: 01/10/19

Date Reported: 01/23/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 01/18/19		Preparation Date: 01/17/19		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO19

Sample ID: 162V2-81-01 (0-5)

Sample No: 19-0169-014

Date Collected: 01/10/19

Time Collected: 12:37

Date Received: 01/10/19

Date Reported: 01/23/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 01/18/19		Preparation Date: 01/17/19		
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: 01/17/19		Preparation Date: 01/14/19		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.5	1.0	mg/kg	
Barium	24.6	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	61,400	50	mg/kg	
Chromium	10.0	0.5	mg/kg	
Cobalt	5.8	0.5	mg/kg	
Copper	16.6	0.5	mg/kg	
Iron	12,800	5.0	mg/kg	
Lead	11.7	0.5	mg/kg	
Magnesium	37,900	50	mg/kg	
Manganese	295	0.5	mg/kg	
Nickel	17.0	0.5	mg/kg	
Potassium	1,250	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	384	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	15.2	1.0	mg/kg	
Zinc	38.7	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 01/14/19				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2				
Method: 9045D 2004				
Analysis Date: 01/16/19 11:30				
pH @ 25°C, 1:2	8.96		Units	
TCLP Extraction				
Method: 1311				
Analysis Date: 01/15/19				
TCLP Extraction	Complete			



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IL ELAP / NELAC Accreditation # 100292

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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO19
Sample ID: 162V2-81-01 (0-5)
Sample No: 19-0169-014

Date Collected: 01/10/19
Time Collected: 12:37
Date Received: 01/10/19
Date Reported: 01/23/19

Results are reported on a dry weight basis.

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 01/18/19 Preparation Date: 01/17/19				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	0.5	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.7	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 01/17/19				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 01/15/19				
SPLP Metals Extraction	Complete			
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A				
Analysis Date: 01/18/19 Preparation Date: 01/17/19				
Arsenic	0.040	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.077	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.130	0.005	mg/L	
Iron	102	0.1	mg/L	
Lead	0.067	0.005	mg/L	
Manganese	0.5	0.1	mg/L	
Nickel	0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	



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1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO19
Sample ID: 162V2-81-01 (0-5)
Sample No: 19-0169-014

Date Collected: 01/10/19
Time Collected: 12:37
Date Received: 01/10/19
Date Reported: 01/23/19

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: 01/18/19 Preparation Date: 01/17/19				
Zinc	0.3	0.1	mg/L	
SPLP Mercury Method 1312 Method: 7470A Analysis Date: 01/18/19				
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: 116	86	117
5035A/8260B	d8-Toluene (Surr)	%R: 114	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 114	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R: 120.4	59	131
8270C	2-Fluorobiphenyl (Surr)	%R: 81.8	45	112
8270C	2-Fluorophenol (Surr)	%R: 63.7	41	84
8270C	d14-Terphenyl (Surr)	%R: 95.9	56	120
8270C	d5-Nitrobenzene (Surr)	%R: 97.2	35	105
8270C	Phenol-d5 (surr)	%R: 77	50	100



Illinois Environmental Protection Agency

Page 1 of 2

Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

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: FAU 0347 IL Route 38

Office Phone Number, if available: 847-705-4122

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

1627V2-18 (1166 E. State St), 1627V2-19 (1122 E. State St), 1627V2-49 (701 E. State St), 1627V2-51 (600block E. State St), 1627V2-52 (611 E. State St), 1627V2-66 (421 E. State St), 1627V2-67 (415 E. State St), 1627V2-69 (324 E. State St), 1627V2-73 (230 E. State St), 1627V2-82 (27 N. Bennett St.)

City: Geneva

State: IL

Zip Code: 60134

County: Kane

Township: _____

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

Latitude: 41.8870

Longitude: - 88.2918

(Decimal Degrees)

(-Decimal Degrees)

Identify how the lat/long data were determined:

☐ GPS

☐ Map Interpolation

☐ Photo Interpolation

☐ Survey

☒ Other

ISGS Public Land Survey System - Approximate Center of multiple addresses

IEPA Site Number(s), if assigned: _____

BOL: _____

BOW: _____

BOA: _____

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.

Project Name: FAU 0347 IL Route 38Latitude: 41.8870 Longitude: - 88.2918Uncontaminated Site Certification**III. Basis for Certification and Attachments**

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

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

Refer to Figure 4-1.1-4-1.9 in the Final PSI Report and borings 1627V2-18-01 (IL 38 Sta 166+75, 30 Right), 1627V2-18-02 (IL 38 Sta 168+00, 30 Right), 1627V2-19-01 (IL 38 Sta 163+75, 30 Right), 1627V2-19-02 (IL 38 Sta 164+25, 30 Right), 1627V2-19-03 (IL 38 Sta 165+25, 30 Right), 1627V2-49-01 (IL 38 Sta 144+50, 40 Left), 1627V2-51-01 (IL 38 Sta 141+00, 40 Left), 1627V2-51-02 (IL 38 Sta 142+00, 40 Left), 1627V2-52-01 (IL 38 Sta 140+00, 40 Left), 1627V2-66-01 (IL 38 Sta 133+25, 30 Left), 1627V2-67-01 (IL 38 Sta 132+75, 30 Left), 1627V2-69-01 (IL 38 Sta 130+75, 30 Right), 1627V2-69-03 (IL 38 Sta 131+75, 30 Right), 1627V2-73-01 (IL 38 Sta 126+50, 30 Right), 1627V2-82-01 (IL 38 Sta 120+80, 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, Inc. report #18-7651, 19-0138, and 19-0169. 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.

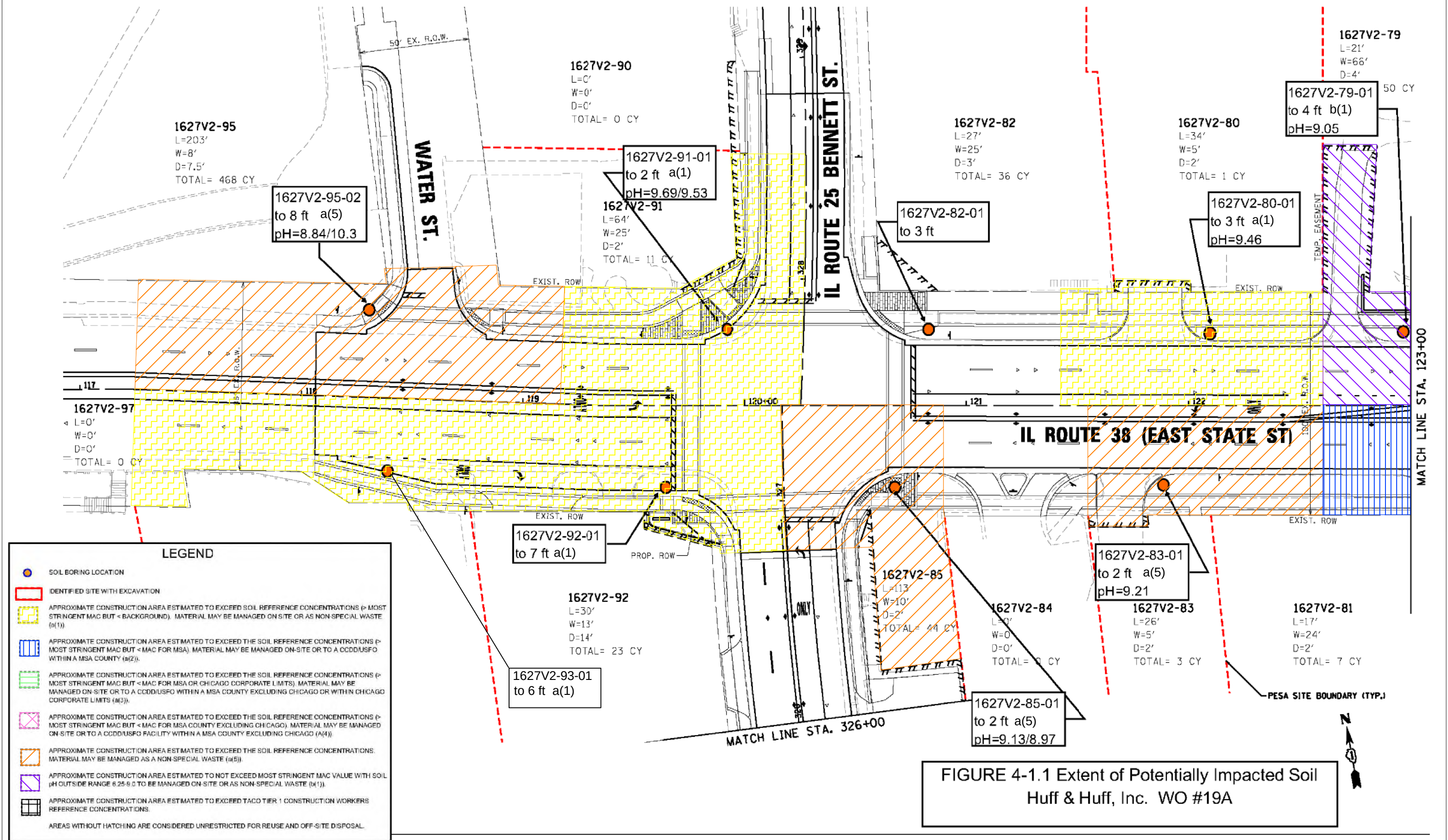
Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

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

Printed Name:

[Signature]
Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Date: 2/12/19



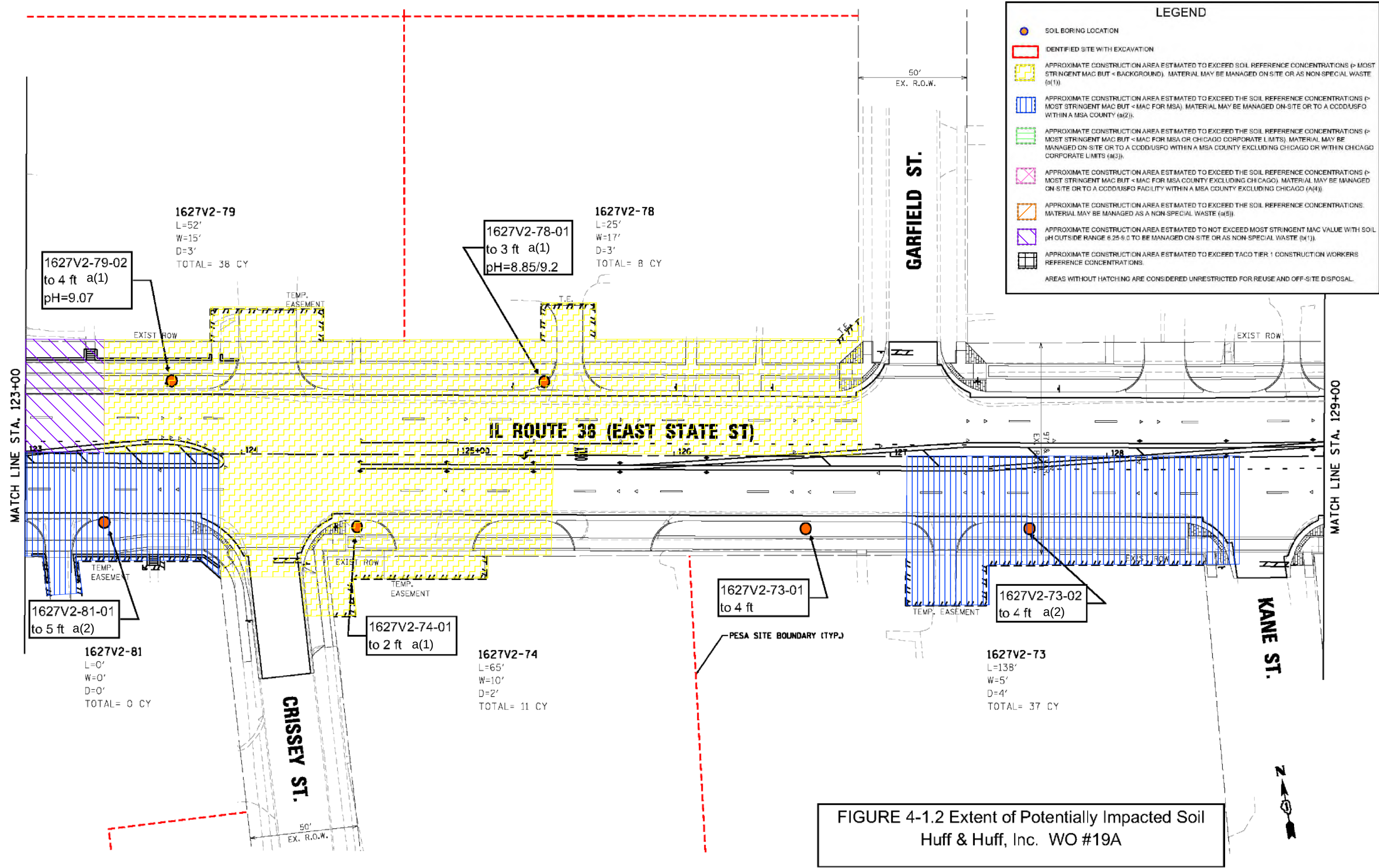


FIGURE 4-1.2 Extent of Potentially Impacted Soil
Huff & Huff, Inc. WO #19A

LEGEND

SOIL BORING LOCATION

IDENTIFIED SITE WITH EXCAVATION

APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED SOIL REFERENCE CONCENTRATIONS (P MOST STRINGENT MAC BUT < BACKGROUND). MATERIAL MAY BE MANAGED ON SITE OR AS NON-SPECIAL WASTE (a(1)).

APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS (P MOST STRINGENT MAC BUT < MAC FOR MSA). MATERIAL MAY BE MANAGED ON-SITE OR TO A CCDD/USFO WITHIN A MSA COUNTY (a(2)).

APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS (P MOST STRINGENT MAC BUT < MAC FOR MSA OR CHICAGO CORPORATE LIMITS). MATERIAL MAY BE MANAGED ON-SITE OR TO A CCDD/USFO WITHIN A MSA COUNTY EXCLUDING CHICAGO OR WITHIN CHICAGO CORPORATE LIMITS (a(3)).

APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS (P MOST STRINGENT MAC BUT < MAC FOR MSA COUNTY EXCLUDING CHICAGO). MATERIAL MAY BE MANAGED ON-SITE OR TO A CCDD/USFO FACILITY WITHIN A MSA COUNTY EXCLUDING CHICAGO (A(4)).

APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS. MATERIAL MAY BE MANAGED AS A NON-SPECIAL WASTE (a(5)).

APPROXIMATE CONSTRUCTION AREA ESTIMATED TO NOT EXCEED MOST STRINGENT MAC VALUE WITH SOIL pH OUTSIDE RANGE 6.25-9.0 TO BE MANAGED ON-SITE OR AS NON-SPECIAL WASTE (b(1)).

APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED TACO TIER 1 CONSTRUCTION WORKERS REFERENCE CONCENTRATIONS.

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

1627V2-67
L=5'
W=15'
D=3'
TOTAL= 2 CY

1627V2-66
L=15'
W=15'
D=3'
TOTAL= 4 CY

1627V2-65
L=36'
W=18'
D=5'
TOTAL= 10 CY

1627V2-60
L=0'
W=0'
D=0'
TOTAL= 0 CY

1627V2-59-01
to 3 ft a(1)

1627V2-67-01
to 3 ft

1627V2-66-01
to 3 ft

1627V2-65-01
to 5 ft a(2)

1627V2-69-01
to 3 ft

1627V2-69-02
to 3 ft a(1)
pH=9.13

1627V2-69-03
to 3 ft

1627V2-64-01
to 2 ft a(1)

1627V2-64
L=60'
W=20'
D=2'
TOTAL= 5 CY

1627V2-63
L=0'
W=0'
D=0'
TOTAL= 0 CY

1627V2-62
L=0'
W=0'
D=0'
TOTAL= 0 CY

1627V2-61
L=0'
W=0'
D=0'
TOTAL= 0 CY

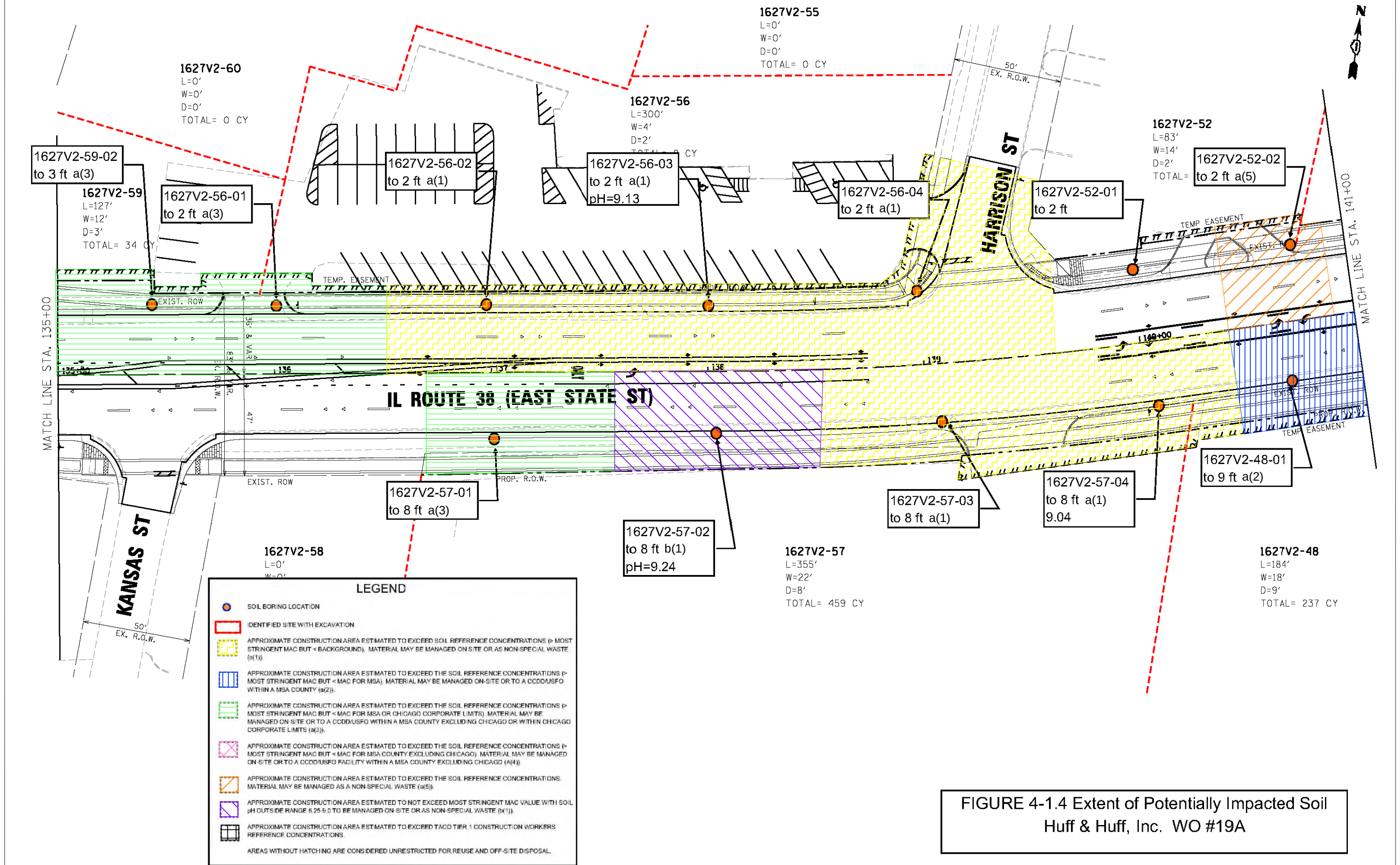
1627V2-71
L=0'
W=0'
D=0'
TOTAL= 0 CY

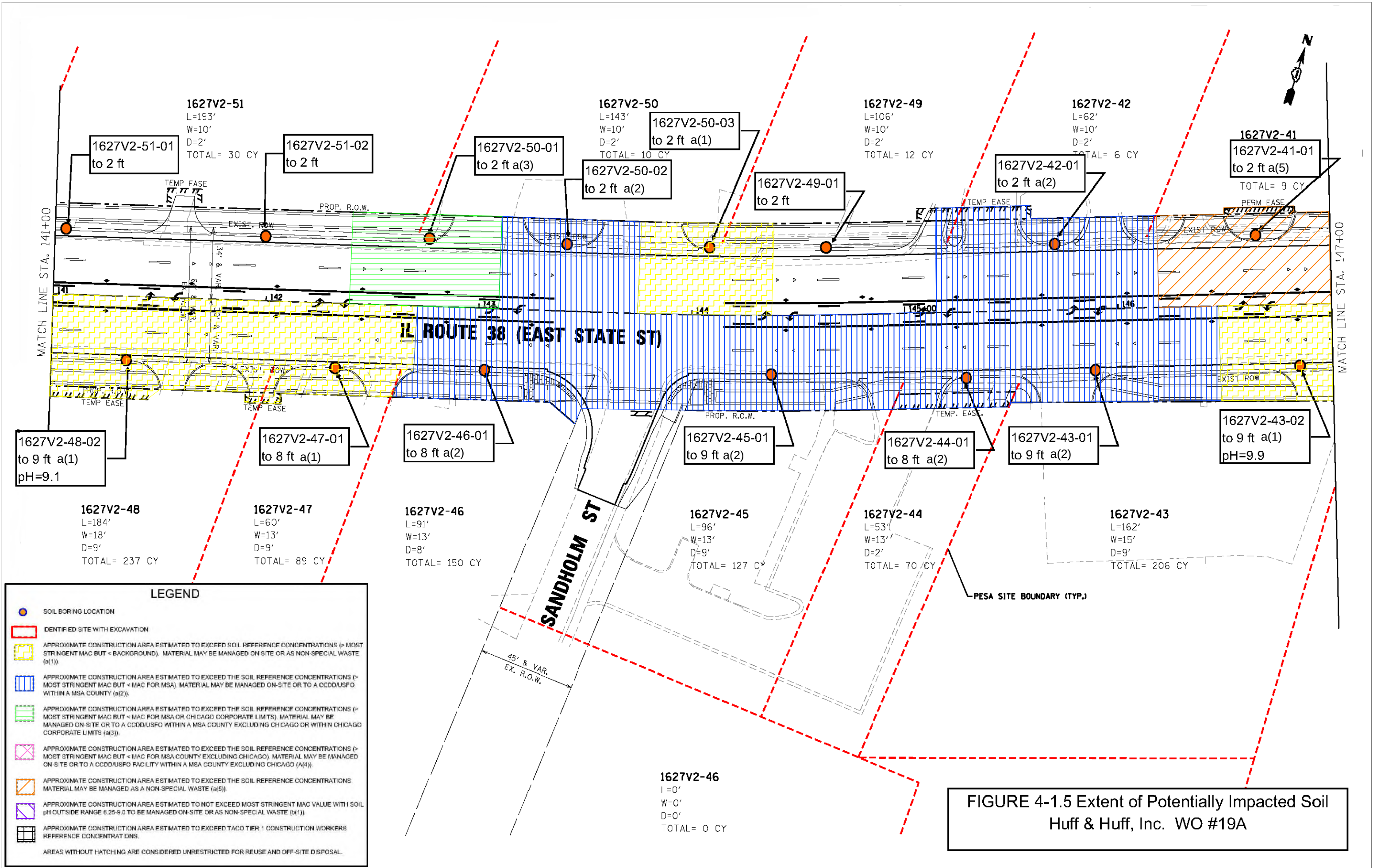
1627V2-70
L=0'
W=0'
D=0'
TOTAL= 0 CY

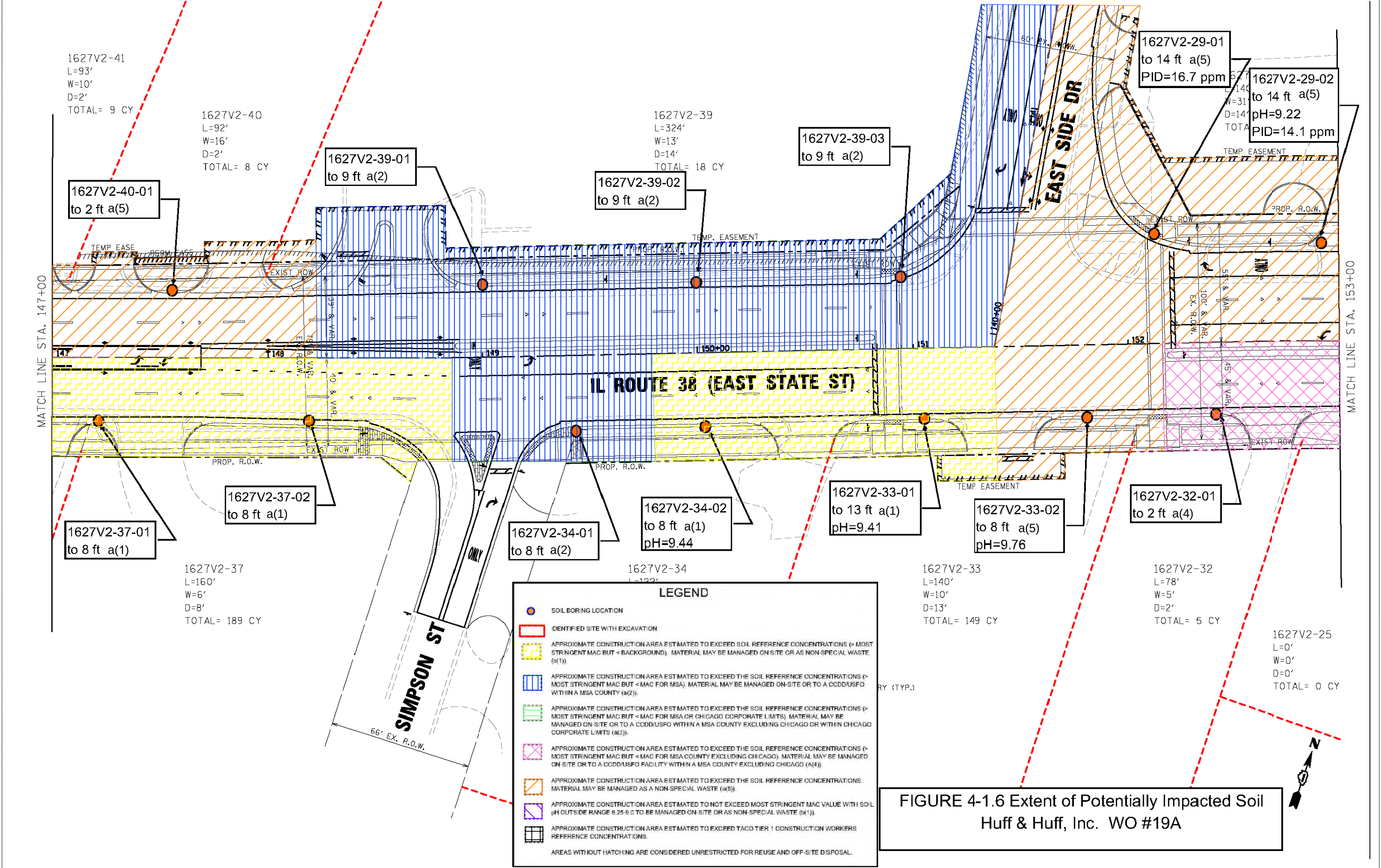
1627V2-69
L=135'
W=5'
D=3'
TOTAL= 12 CY

FIGURE 4-1.3 Extent of Potentially Impacted Soil
Huff & Huff, Inc. WO #19A

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		IDOT IL Route 38 (East State Street) Geneva, Kane County, Illinois		F.A.U. RTE. 573	SECTION 61HB-B	COUNTY KANE	TOTAL SHEETS 11	SHE NO 3
		DRAWN -	REVISED -									
		CHECKED -	REVISED -									
		DATE -	REVISED -									
PLOT SCALE =						SCALE: 1" = Approx. 47'		SHEET NO. 3 OF 11 SHEETS		STA. TO STA.		
PLOT DATE =										ILLINOIS FED. AID PROJECT		



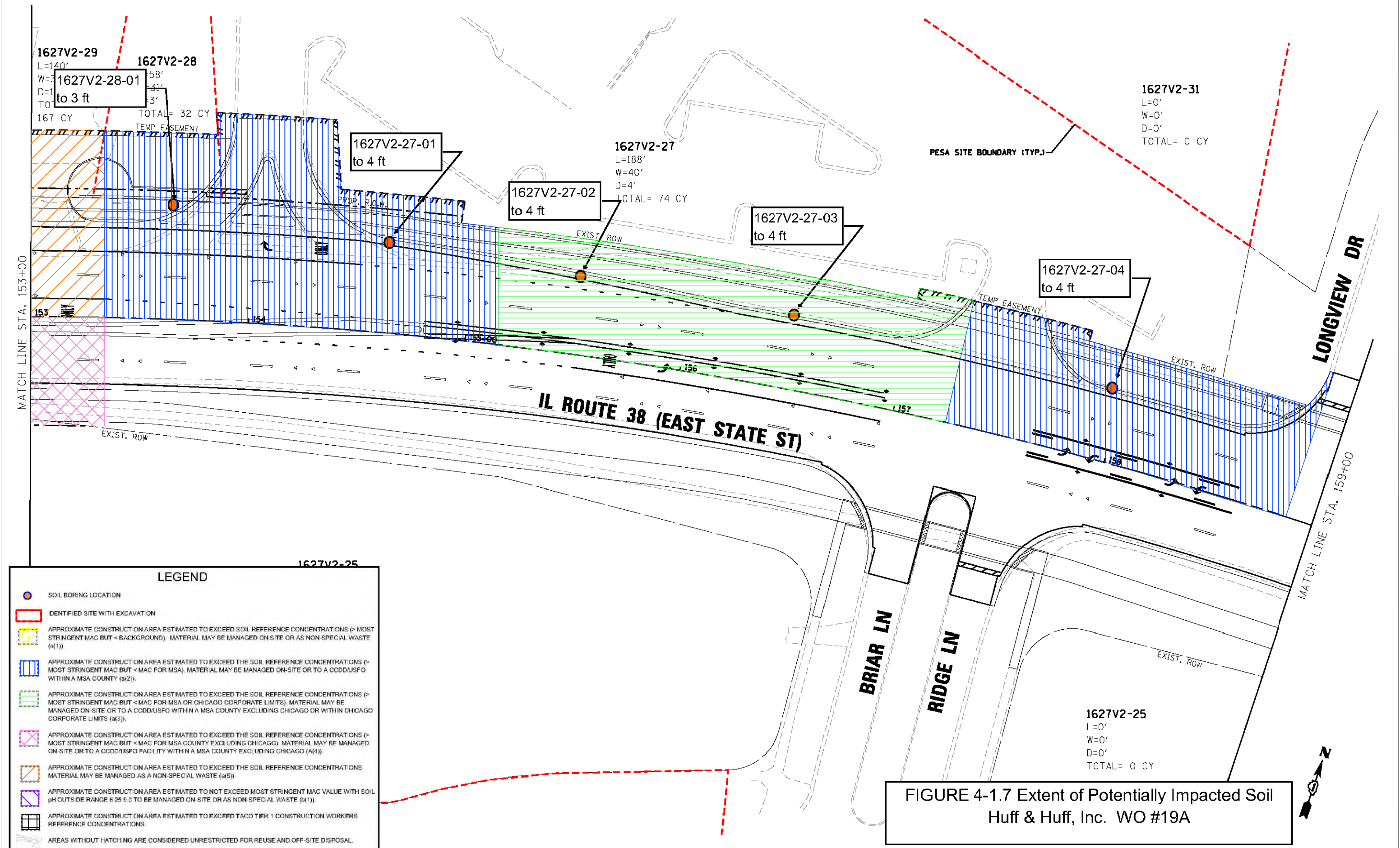




FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE =	CHECKED -	REVISED -
	PLOT DATE =	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

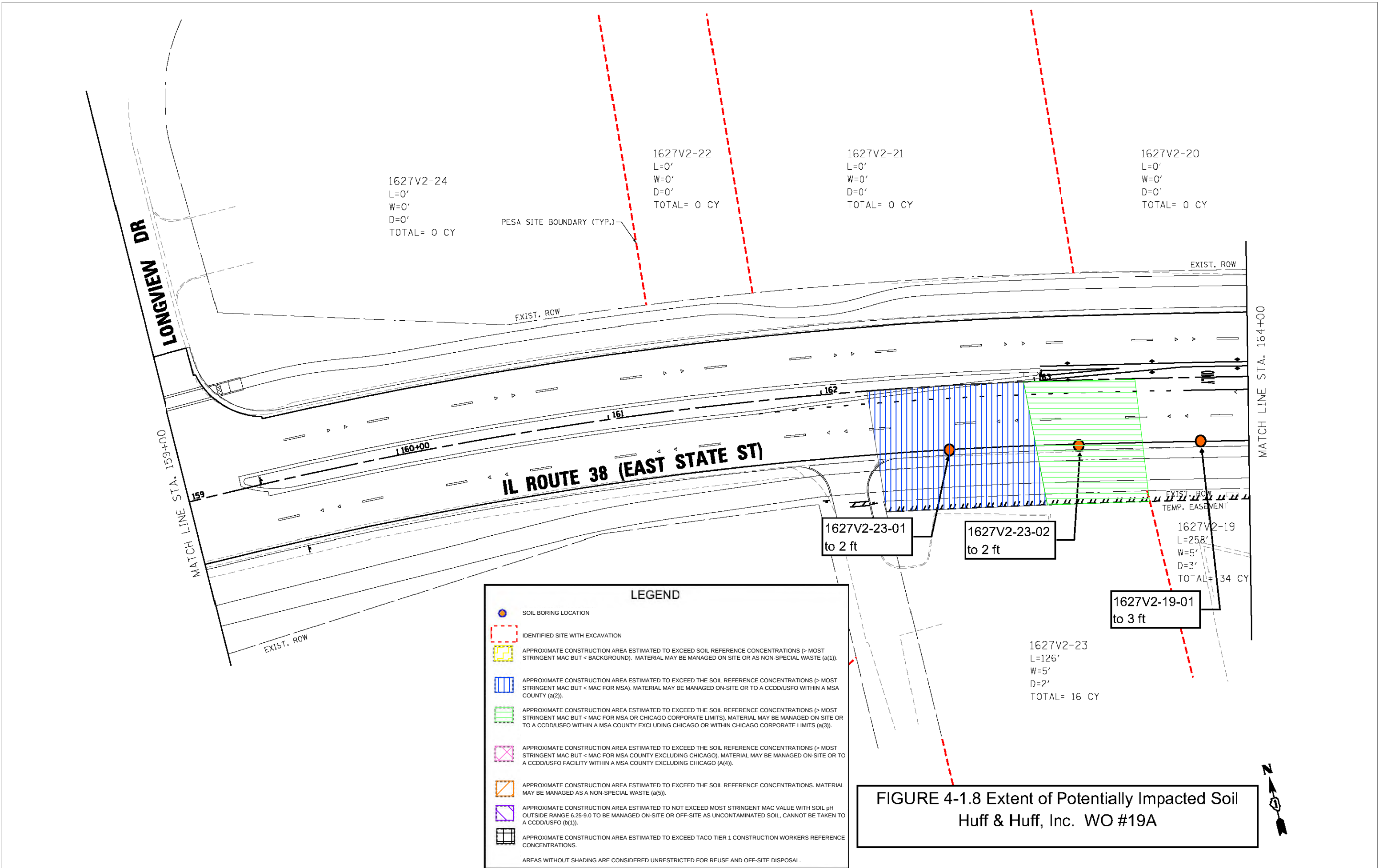
IDOT IL Route 38 (East State Street) Geneva, Kane County, Illinois				F.A.U. RTE. 573	SECTION 61HB-B	COUNTY KANE	TOTAL SHEETS 11	SHE NO 6
SCALE: 1" = Approx. 47'				SHEET NO. 6 OF 11 SHEETS				CONTRACT NO. 60W52
STA. TO STA.				ILLINOIS FED. AID PROJECT				



LEGEND

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

FIGURE 4-1.7 Extent of Potentially Impacted Soil
Huff & Huff, Inc. WO #19A



LEGEND

SOIL BORING LOCATION

IDENTIFIED SITE WITH EXCAVATION

APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < BACKGROUND). MATERIAL MAY BE MANAGED ON SITE OR AS NON-SPECIAL WASTE (a(1)).

APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < MAC FOR MSA). MATERIAL MAY BE MANAGED ON-SITE OR TO A CCDD/USFO WITHIN A MSA COUNTY (a(2)).

APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < MAC FOR MSA OR CHICAGO CORPORATE LIMITS). MATERIAL MAY BE MANAGED ON-SITE OR TO A CCDD/USFO WITHIN A MSA COUNTY EXCLUDING CHICAGO OR WITHIN CHICAGO CORPORATE LIMITS (a(3)).

APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < MAC FOR MSA COUNTY EXCLUDING CHICAGO). MATERIAL MAY BE MANAGED ON-SITE OR TO A CCDD/USFO FACILITY WITHIN A MSA COUNTY EXCLUDING CHICAGO (A(4)).

APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS. MATERIAL MAY BE MANAGED AS A NON-SPECIAL WASTE (a(5)).

APPROXIMATE CONSTRUCTION AREA ESTIMATED TO NOT EXCEED MOST STRINGENT MAC VALUE WITH SOIL pH OUTSIDE RANGE 6.25-9.0 TO BE MANAGED ON-SITE OR 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.

1627V2-20
L=0'
W=0'
D=0'
TOTAL= 0 CY

EXIST. ROW

MATCH LINE STA. 164+00

164+00 165+00 166 167 168 169

IL ROUTE 38 (EAST STATE ST)

EXIST. ROW

1627V2-19-02 to 3 ft

1627V2-19-03 to 3 ft

1627V2-18-01 to 3 ft

1627V2-18-02 to 3 ft

1627V2-18-03 to 3 ft

1627V2-16-01 to 2 ft

1627V2-19
L=258'
W=5'
D=3'
TOTAL= 34 CY

1627V2-18
L=100'
W=5'
D=2'
TOTAL= 3 CY

1627V2-16
L=31'
W=10'
D=2'
TOTAL= 3 CY

PESA SITE BOUNDARY (TYP.)

TEMP. EASEMENT

EXIST. ROW

MATCH LINE STA. 170+00

FIGURE 4-1.9 Extent of Potentially Impacted Soil
Huff & Huff, Inc. WO #19A

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IDOT IL Route 38 (East State Street) Geneva, Kane County, Illinois	F.A.U. RTE. 573	SECTION 61HB-B	COUNTY KANE	TOTAL SHEETS 11	SHE NO 9
		DRAWN -	REVISED -							
	PLOT SCALE =	CHECKED -	REVISED -							
	PLOT DATE =	DATE -	REVISED -							
					SHEET NO. 9 OF 11 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		
								CONTRACT NO. 60W52		

Soils for *Unrestricted* Reuse or Disposal at CCDD Facilities
Illinois Department of Transportation, District One
IL Route 38 (East State Street)
Geneva, Kane County, Illinois
BDE Sequence No.: 13066C
PTB: 178-008/HH-1, Work Order No.: 19A

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/}	1627V2-18-01	1627V2-18-02	1627V2-19-01	1627V2-19-02	1627V2-19-03	DUP-01 (1627V2-19-03)	1627V2-49-01	1627V2-51-01	1627V2-51-02	1627V2-52-01	1627V2-66-01	1627V2-67-01	1627V2-69-01	1627V2-69-03	1627V2-73-01	1627V2-82-01
				(0-3)	(0-3)	(0-3)	(0-3)	(0-3)	(0-3)	(0-2)	(0-2)	(0-2)	(0-2)	(0-3)	(0-3)	(0-3)	(0-3)	(0-4)	(0-3)
				12/21/2018	12/21/2018	12/21/2018	12/21/2018	12/21/2018	12/21/2018	1/9/2019	1/9/2019	1/9/2019	1/9/2019	1/9/2019	1/9/2019	1/10/2019	1/10/2019	1/10/2019	1/10/2019
				1627V2-18		1627V2-19				1627V2-49	1627V2-51		1627V2-52	1627V2-66	1627V2-67	1627V2-69		1627V2-73	1627V2-82
Parameter																			
VOCs, mg/kg																			
Benzene	0.03	2.2	0.8	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Carbon disulfide	9	9	720	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Methyl tert-butyl ether	0.32	140	780	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SVOCs, mg/kg																			
Anthracene	12,000	610000	23000	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Benzidine	---	---	---	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Benzo(a)anthracene	0.9 / 1.1 / 1.8	170	0.9	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Benzo(a)pyrene	0.09 / 1.3 / 2.1	17	0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.33	<0.33	<0.33	<0.33
Benzo(b)fluoranthene	0.9 / 1.5 / 2.1	170	0.9	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.09	<0.09	<0.09	<0.09
Benzo(k)fluoranthene	9	1700	9	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Benzo(g,h,i)perylene	---	---	---	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Benzoic acid	400	820000	310000	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Bis(2-ethylhexyl)phthalate	46	4100	46	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Butyl benzyl phthalate	930	410000	930	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Carbazole	0.6	6200	32	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Chrysene	88	17000	88	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Dibenz(a,h)anthracene	0.09 / 0.2 / 0.42	17	0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09
Fluoranthene	3,100	82,000	3,100	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Indeno(1,2,3-cd)pyrene	0.9 / 0.9 / 1.6	170	0.9	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Pyrene	2,300	61000	2300	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33

--- - 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 expsoure, most stringent of the Ingestion or Inhalation exposure route.

 Shaded values indicate concentration exceeds reference concentratior

Soils for *Unrestricted* Reuse or Disposal at CCDD Facilities
Illinois Department of Transportation, District One
IL Route 38 (East State Street)
Geneva, Kane County, Illinois
BDE Sequence No.: 13066C
PTB: 178-008/HH-1, Work Order No.: 19A

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/}	1627V2-18-01	1627V2-18-02	1627V2-19-01	1627V2-19-02	1627V2-19-03	DUP-01 (1627V2-19-03)	1627V2-49-01	1627V2-51-01	1627V2-51-02	1627V2-52-01	1627V2-66-01	1627V2-67-01	1627V2-69-01	1627V2-69-03	1627V2-73-01	1627V2-82-01
				(0-3)	(0-3)	(0-3)	(0-3)	(0-3)	(0-3)	(0-2)	(0-2)	(0-2)	(0-2)	(0-3)	(0-3)	(0-3)	(0-3)	(0-4)	(0-3)
				12/21/2018	12/21/2018	12/21/2018	12/21/2018	12/21/2018	12/21/2018	1/9/2019	1/9/2019	1/9/2019	1/9/2019	1/9/2019	1/9/2019	1/10/2019	1/10/2019	1/10/2019	1/10/2019
				1627V2-18		1627V2-19				1627V2-49	1627V2-51		1627V2-52	1627V2-66	1627V2-67	1627V2-69		1627V2-73	1627V2-82
Parameter																			
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	8.37	8.03	7.83	8.35	8.11	8.19	7.91	8.26	8.16	8.31	8.32	8.65	8.6	8.64	8.36	8.46
Total Metals, mg/kg																			
Antimony	5	82	31	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	1.2	1.6	1.9	1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	13	3.8	6.8	6	4.8	6.2	3.9	3	7.1	5.7	3.1	5.9	5.3	4.5	10	5.5	5.2
Barium	1,500	14,000	5500	26.4	108	82.3	29.1	101	38.4	71.8	83.8	218	121	39	36	89.7	51.8	32	58.1
Beryllium	22	410	160	<0.5	0.7	0.5	<0.5	1.2	<0.5	0.5	0.6	0.5	<0.5	<0.5	<0.5	<0.5	0.5	<0.5	0.5
Cadmium	5.2	200	78	<0.5	0.5	0.6	<0.5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Calcium	---	---	---	69300	3110	25600	68100	6370	88300	3330	2230	2910	3400	58100	70700	23400	33000	55800	1510
Chromium	21	690	230	10.2	20.4	15.8	10.8	23.4	10.5	12.8	16.8	20.7	9.1	12.2	10.8	15.5	11.8	10.3	13.8
Cobalt	20	12,000	4700	4.6	18.6	8.4	7.9	11	6.1	3.9	5.4	4.8	7	7.8	7.8	6.7	9.5	6.8	9
Copper	2,900	8,200	2900	16.3	15	19.6	15.4	25.9	13.7	13.2	16.1	18.2	10.4	16.9	15.2	16.3	29.3	15.5	12.6
Iron	15,000 / 15,900	---	---	11900	22900	17700	14000	28700	12900	13700	20100	23000	10700	15000	12900	14100	18200	13600	16900
Lead	107	700	400	7	12.8	39.9	7.3	14	6	8.7	8.4	6.6	12.1	10.4	7.7	79.6	24.6	11.1	9.3
Magnesium	325,000	730,000	325000	42700	3890	15300	39900	6870	48000	2930	3280	4180	1470	36600	36400	14200	21800	34200	2290
Manganese	630 / 636	4,100	1600	257	457	647	460	337	332	220	330	209	895	355	316	490	276	335	453
Mercury	0.89	0.1	10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.07	<0.05	<0.05	<0.05	<0.05	<0.05	0.08	<0.05	<0.05	<0.05
Nickel	100	4,100	1600	12.5	15.9	18	18.3	46	14.9	16.3	16.6	15.8	10.2	19.7	17.3	14.3	21.2	17.7	15.5
Potassium	---	---	---	1170	964	2560	2280	1790	2300	1070	711	806	574	2230	2290	1250	997	982	1030
Selenium	1.3	1,000	390	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Silver	4.4	1,000	390	0.3	0.6	0.5	0.3	0.5	0.3	0.3	0.6	0.6	<0.2	0.4	0.3	0.4	0.4	0.3	0.4
Sodium	---	---	---	291	486	145	153	192	205	591	567	695	333	143	191	166	203	112	1570
Thallium	2.6	160	6.3	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	1.2	<1.0	<1.0	2.9	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vanadium	550	1,400	550	18	36.9	26.8	17	34.5	15.6	17	30.8	31.7	19	18.7	15.1	24.7	18.8	16	22.7
Zinc	5,100	61,000	23000	26.3	44	48.8	24.8	47.8	22.5	33.6	35.2	46.1	34.7	37.5	39.3	68.5	41.3	39.3	40
TCLP Metals, mg/L	Class I Groundwater ^{d/}																		
Arsenic	0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Barium	2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium	0.004			<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Cadmium	0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium	0.1			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cobalt	1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Copper	0.65			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Iron	5			0.1	0.6	0.1	<0.1	0.2	0.2	1.7	0.3	0.2	0.8	0.2	0.1	0.2	0.1	0.1	2.6
Lead	0.0075			<0.005	0.015	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	<0.005	<0.005	<0.005
Manganese	0.15			0.3	<0.1	0.3	3	0.2	5.6	<0.1	<0.1	<0.1	<0.1	0.5	<0.1	0.3	1.7	0.5	<0.1
Mercury	0.002			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel	0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Selenium	0.05			<0.010	<0.010	<0.010	0.012	<0.010	0.018	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Silver	0.05			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Zinc	5			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SPLP Metals, mg/L	Class I Groundwater ^{d/}																		
Arsenic	0.05			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.039	0.025	0.015	<0.010	<0.010	0.034	<0.010	<0.010	<0.010	0.043
Barium	2			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium	0.004			<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.007	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.005
Cadmium	0.005			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium	0.1			0.009	0.021	0.009	<0.005	0.006	<0.005	0.199	0.108	0.123	0.04	0.019	0.059	0.015	0.026	0.012	0.142
Cobalt	1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Copper	0.65			0.014	0.019	0.012	0.008	0.013	0.007	0.165	0.088	0.097	0.031	0.025	0.091	0.013	0.036	0.017	0.127
Iron	5			8.9	19.1	8.6	3.1	6.1	2.8	198	115	128	35.8	21.8	75.4	13.6	26.2	12	155
Lead	0.0075			<0.005	<0.005	0.005	<0.005	<0.005	<0.005	0.038	0.023	0.024	0.023	0.008	0.033	0.02	0.011	<0.005	0.059
Manganese	0.15			<0.1	<0.1	<0.1	<0.1	<0.1											

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

ND - Refers to constituent not detected above the reporting limit

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

Inorganic Soil Reference Concentrations (xx.xx / xx.xx) Include the Most Stringent values from the MAC Table / and the MSA County Value From the MAC Table as Applicable

^{b/} Soil Remediation 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.



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IL ELAP / NELAC Accreditation # 100292

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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO #19 IL 38

Sample ID: 1627V2-18-01 0-3

Sample No: 18-7651-005

Date Collected: 12/21/18

Time Collected: 9:50

Date Received: 12/21/18

Date Reported: 01/04/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total Method: 2540B				
Analysis Date: 12/21/18				
Total Solids	83.54		%	
Volatile Organic Compounds Method: 5035A/8260B				
Analysis Date: 01/02/19				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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IL ELAP / NELAC Accreditation # 100292

Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO #19 IL 38

Sample ID: 1627V2-18-01 0-3

Sample No: 18-7651-005

Date Collected: 12/21/18

Time Collected: 9:50

Date Received: 12/21/18

Date Reported: 01/04/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds				
Method: 5035A/8260B				
Analysis Date: 01/02/19				
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				
Analysis Date: 12/27/18				
Preparation Method 3540C				
Preparation Date: 12/26/18				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO #19 IL 38

Sample ID: 1627V2-18-01 0-3

Sample No: 18-7651-005

Date Collected: 12/21/18

Time Collected: 9:50

Date Received: 12/21/18

Date Reported: 01/04/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 12/27/18		Preparation Date: 12/26/18		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO #19 IL 38

Sample ID: 1627V2-18-01 0-3

Sample No: 18-7651-005

Date Collected: 12/21/18

Time Collected: 9:50

Date Received: 12/21/18

Date Reported: 01/04/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 12/27/18		Preparation Date: 12/26/18		
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: 12/27/18		Preparation Date: 12/26/18		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.8	1.0	mg/kg	
Barium	26.4	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	69,300	50	mg/kg	
Chromium	10.2	0.5	mg/kg	
Cobalt	4.6	0.5	mg/kg	
Copper	16.3	0.5	mg/kg	
Iron	11,900	5.0	mg/kg	
Lead	7.0	0.5	mg/kg	
Magnesium	42,700	50	mg/kg	
Manganese	257	0.5	mg/kg	
Nickel	12.5	0.5	mg/kg	
Potassium	1,170	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	291	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	18.0	1.0	mg/kg	
Zinc	26.3	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 12/26/18				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2				
Method: 9045D 2004				
Analysis Date: 12/26/18 11:25				
pH @ 25°C, 1:2	8.37		Units	
TCLP Extraction				
Method: 1311				
Analysis Date: 12/26/18				
TCLP Extraction	Complete			



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO #19 IL 38
Sample ID: 1627V2-18-01 0-3
Sample No: 18-7651-005

Date Collected: 12/21/18
Time Collected: 9:50
Date Received: 12/21/18
Date Reported: 01/04/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A Analysis Date: 12/28/18 Preparation Date: 12/27/18				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	0.3	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: 12/28/18				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312 Analysis Date: 12/26/18				
SPLP Metals Extraction	Complete			
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A Analysis Date: 12/28/18 Preparation Date: 12/28/18				
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	0.009	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.014	0.005	mg/L	
Iron	8.9	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO #19 IL 38

Sample ID: 1627V2-18-01 0-3

Sample No: 18-7651-005

Date Collected: 12/21/18

Time Collected: 9:50

Date Received: 12/21/18

Date Reported: 01/04/19

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: 12/28/18 Preparation Date: 12/28/18				
Zinc	< 0.1	0.1	mg/L	
SPLP Mercury Method 1312 Method: 7470A				
Analysis Date: 12/28/18				
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: 93.1	86	117
5035A/8260B	d8-Toluene (Surr)	%R: 93.2	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 93.5	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R: 121.7	59	131
8270C	2-Fluorobiphenyl (Surr)	%R: 81	45	112
8270C	2-Fluorophenol (Surr)	%R: 55.2	41	84
8270C	d14-Terphenyl (Surr)	%R: 93.9	56	120
8270C	d5-Nitrobenzene (Surr)	%R: 72.7	35	105
8270C	Phenol-d5 (surr)	%R: 66.6	50	100



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO #19 IL 38
Sample ID: 1627V2-18-02 0-3
Sample No: 18-7651-006

Date Collected: 12/21/18
Time Collected: 8:53
Date Received: 12/21/18
Date Reported: 01/04/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total Method: 2540B				
Analysis Date: 12/21/18				
Total Solids	76.62		%	
Volatile Organic Compounds Method: 5035A/8260B				
Analysis Date: 01/02/19				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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IL ELAP / NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO #19 IL 38
Sample ID: 1627V2-18-02 0-3
Sample No: 18-7651-006

Date Collected: 12/21/18
Time Collected: 8:53
Date Received: 12/21/18
Date Reported: 01/04/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/02/19				
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: 12/27/18		Preparation Date: 12/26/18		
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO #19 IL 38

Sample ID: 1627V2-18-02 0-3

Sample No: 18-7651-006

Date Collected: 12/21/18

Time Collected: 8:53

Date Received: 12/21/18

Date Reported: 01/04/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		
Analysis Date: 12/27/18		Preparation Method 3540C		
		Preparation Date: 12/26/18		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO #19 IL 38

Sample ID: 1627V2-18-02 0-3

Sample No: 18-7651-006

Date Collected: 12/21/18

Time Collected: 8:53

Date Received: 12/21/18

Date Reported: 01/04/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 12/27/18		Preparation Date: 12/26/18		
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: 12/27/18		Preparation Date: 12/26/18		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.8	1.0	mg/kg	
Barium	108	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	0.5	0.5	mg/kg	
Calcium	3,110	50	mg/kg	
Chromium	20.4	0.5	mg/kg	
Cobalt	18.6	0.5	mg/kg	
Copper	15.0	0.5	mg/kg	
Iron	22,900	5.0	mg/kg	
Lead	12.8	0.5	mg/kg	
Magnesium	3,890	50	mg/kg	
Manganese	457	0.5	mg/kg	
Nickel	15.9	0.5	mg/kg	
Potassium	964	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	486	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	36.9	1.0	mg/kg	
Zinc	44.0	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 12/26/18				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2				
Method: 9045D 2004				
Analysis Date: 12/26/18 11:25				
pH @ 25°C, 1:2	8.03		Units	
TCLP Extraction				
Method: 1311				
Analysis Date: 12/26/18				
TCLP Extraction	Complete			



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO #19 IL 38
Sample ID: 1627V2-18-02 0-3
Sample No: 18-7651-006

Date Collected: 12/21/18
Time Collected: 8:53
Date Received: 12/21/18
Date Reported: 01/04/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311		Method: 6010C		
Analysis Date: 12/28/18		Preparation Method 3010A		
		Preparation Date: 12/27/18		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	0.6	0.1	mg/L	
Lead	0.015	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: 12/28/18

Mercury	< 0.0005	0.0005	mg/L
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SPLP Extraction

Method: 1312

Analysis Date: 12/26/18

SPLP Metals Extraction

Complete

SPLP Metals Method 1312

Method: 6010C

Analysis Date: 12/28/18

Preparation Method 3010A

Preparation Date: 12/28/18

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	0.021	0.005	mg/L
Cobalt	< 0.1	0.1	mg/L
Copper	0.019	0.005	mg/L
Iron	19.1	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



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO #19 IL 38

Sample ID: 1627V2-18-02 0-3

Sample No: 18-7651-006

Date Collected: 12/21/18

Time Collected: 8:53

Date Received: 12/21/18

Date Reported: 01/04/19

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: 12/28/18		Preparation Date: 12/28/18		
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312	Method: 7470A			
Analysis Date: 12/28/18				
Mercury	< 0.0005	0.0005	mg/L	

Sample QC Summary:		Surrogate Recovery		%R Limits	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	95.3	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	93.3	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	99.2	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	115	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	71.6	45	112
8270C	2-Fluorophenol (Surr)	%R:	52.7	41	84
8270C	d14-Terphenyl (Surr)	%R:	96.9	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	67.1	35	105
8270C	Phenol-d5 (surr)	%R:	61.4	50	100



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO #19 IL 38
Sample ID: 1627V2-19-01 0-3
Sample No: 18-7651-007

Date Collected: 12/21/18
Time Collected: 9:40
Date Received: 12/21/18
Date Reported: 01/04/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total Method: 2540B				
Analysis Date: 12/21/18				
Total Solids	78.43		%	
Volatile Organic Compounds Method: 5035A/8260B				
Analysis Date: 01/02/19				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO #19 IL 38
Sample ID: 1627V2-19-01 0-3
Sample No: 18-7651-007

Date Collected: 12/21/18
Time Collected: 9:40
Date Received: 12/21/18
Date Reported: 01/04/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/02/19				
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: 12/28/18		Preparation Date: 12/26/18		
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO #19 IL 38
Sample ID: 1627V2-19-01 0-3
Sample No: 18-7651-007

Date Collected: 12/21/18
Time Collected: 9:40
Date Received: 12/21/18
Date Reported: 01/04/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 12/28/18		Preparation Date: 12/26/18		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO #19 IL 38
Sample ID: 1627V2-19-01 0-3
Sample No: 18-7651-007

Date Collected: 12/21/18
Time Collected: 9:40
Date Received: 12/21/18
Date Reported: 01/04/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 12/28/18		Preparation Date: 12/26/18		
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: 12/27/18		Preparation Date: 12/26/18		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.0	1.0	mg/kg	
Barium	82.3	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	0.6	0.5	mg/kg	
Calcium	25,600	50	mg/kg	
Chromium	15.8	0.5	mg/kg	
Cobalt	8.4	0.5	mg/kg	
Copper	19.6	0.5	mg/kg	
Iron	17,700	5.0	mg/kg	
Lead	39.9	0.5	mg/kg	
Magnesium	15,300	50	mg/kg	
Manganese	647	0.5	mg/kg	
Nickel	18.0	0.5	mg/kg	
Potassium	2,560	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.5	0.2	mg/kg	
Sodium	145	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	26.8	1.0	mg/kg	
Zinc	48.8	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 12/26/18				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2				
Method: 9045D 2004				
Analysis Date: 12/26/18 11:25				
pH @ 25°C, 1:2	7.83		Units	
TCLP Extraction				
Method: 1311				
Analysis Date: 12/26/18				
TCLP Extraction	Complete			



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1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

IL ELAP / NELAC Accreditation # 100292

Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO #19 IL 38

Sample ID: 1627V2-19-01 0-3

Sample No: 18-7651-007

Date Collected: 12/21/18

Time Collected: 9:40

Date Received: 12/21/18

Date Reported: 01/04/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311		Method: 6010C		
Analysis Date: 12/28/18		Preparation Method 3010A		
		Preparation Date: 12/27/18		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	0.3	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: 12/28/18				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction		Method: 1312		
Analysis Date: 12/26/18				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		
Analysis Date: 12/28/18		Preparation Method 3010A		
		Preparation Date: 12/28/18		
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	0.009	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.012	0.005	mg/L	
Iron	8.6	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	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO #19 IL 38

Sample ID: 1627V2-19-01 0-3

Sample No: 18-7651-007

Date Collected: 12/21/18

Time Collected: 9:40

Date Received: 12/21/18

Date Reported: 01/04/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		
Analysis Date: 12/28/18		Preparation Method 3010A		
		Preparation Date: 12/28/18		
Zinc	< 0.1	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 12/28/18				
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: 92.2	86	117
5035A/8260B	d8-Toluene (Surr)	%R: 92.4	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 93.4	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R: 108	59	131
8270C	2-Fluorobiphenyl (Surr)	%R: 70.8	45	112
8270C	2-Fluorophenol (Surr)	%R: 51.4	41	84
8270C	d14-Terphenyl (Surr)	%R: 84.8	56	120
8270C	d5-Nitrobenzene (Surr)	%R: 64.2	35	105
8270C	Phenol-d5 (surr)	%R: 59.5	50	100



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO #19 IL 38

Sample ID: 1627V2-19-02 0-3

Sample No: 18-7651-008

Date Collected: 12/21/18

Time Collected: 9:43

Date Received: 12/21/18

Date Reported: 01/04/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total				
Method: 2540B				
Analysis Date: 12/21/18				
Total Solids	85.06		%	
Volatile Organic Compounds				
Method: 5035A/8260B				
Analysis Date: 01/02/19				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO #19 IL 38

Sample ID: 1627V2-19-02 0-3

Sample No: 18-7651-008

Date Collected: 12/21/18

Time Collected: 9:43

Date Received: 12/21/18

Date Reported: 01/04/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/02/19				
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: 12/28/18		Preparation Date: 12/26/18		
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO #19 IL 38

Sample ID: 1627V2-19-02 0-3

Sample No: 18-7651-008

Date Collected: 12/21/18

Time Collected: 9:43

Date Received: 12/21/18

Date Reported: 01/04/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 12/28/18		Preparation Date: 12/26/18		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO #19 IL 38

Sample ID: 1627V2-19-02 0-3

Sample No: 18-7651-008

Date Collected: 12/21/18

Time Collected: 9:43

Date Received: 12/21/18

Date Reported: 01/04/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		
Analysis Date: 12/28/18		Preparation Method 3540C		
		Preparation Date: 12/26/18		
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		
Analysis Date: 12/27/18		Preparation Method 3050B		
		Preparation Date: 12/26/18		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.8	1.0	mg/kg	
Barium	29.1	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	68,100	50	mg/kg	
Chromium	10.8	0.5	mg/kg	
Cobalt	7.9	0.5	mg/kg	
Copper	15.4	0.5	mg/kg	
Iron	14,000	5.0	mg/kg	
Lead	7.3	0.5	mg/kg	
Magnesium	39,900	50	mg/kg	
Manganese	460	0.5	mg/kg	
Nickel	18.3	0.5	mg/kg	
Potassium	2,280	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	153	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	17.0	1.0	mg/kg	
Zinc	24.8	1.0	mg/kg	
Total Mercury		Method: 7471B		
Analysis Date: 12/26/18				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D 2004		
Analysis Date: 12/26/18 11:25				
pH @ 25°C, 1:2	8.35		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 12/26/18				
TCLP Extraction	Complete			



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Client: HUFF & HUFF INC.

Project ID: IDOT WO #19 IL 38

Sample ID: 1627V2-19-02 0-3

Sample No: 18-7651-008

Date Collected: 12/21/18

Time Collected: 9:43

Date Received: 12/21/18

Date Reported: 01/04/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311		Method: 6010C		
Analysis Date: 12/28/18		Preparation Method 3010A		
		Preparation Date: 12/27/18		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	3.0	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	0.012	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311		Method: 7470A		
Analysis Date: 12/28/18				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction		Method: 1312		
Analysis Date: 12/26/18				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		
Analysis Date: 12/28/18		Preparation Method 3010A		
		Preparation Date: 12/28/18		
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	0.008	0.005	mg/L	
Iron	3.1	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	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO #19 IL 38

Sample ID: 1627V2-19-02 0-3

Sample No: 18-7651-008

Date Collected: 12/21/18

Time Collected: 9:43

Date Received: 12/21/18

Date Reported: 01/04/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		
Analysis Date: 12/28/18		Preparation Method 3010A		
		Preparation Date: 12/28/18		
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 12/28/18				
Mercury	< 0.0005	0.0005	mg/L	

Sample QC Summary:		Surrogate Recovery		%R Limits	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	94.5	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	93.4	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	96.9	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	108.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	71.4	45	112
8270C	2-Fluorophenol (Surr)	%R:	49.2	41	84
8270C	d14-Terphenyl (Surr)	%R:	81.4	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	64.3	35	105
8270C	Phenol-d5 (surr)	%R:	58	50	100



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO #19 IL 38
Sample ID: 1627V2-19-03 0-3
Sample No: 18-7651-009

Date Collected: 12/21/18
Time Collected: 9:45
Date Received: 12/21/18
Date Reported: 01/04/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total Method: 2540B				
Analysis Date: 12/21/18				
Total Solids	78.51		%	
Volatile Organic Compounds Method: 5035A/8260B				
Analysis Date: 01/02/19				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO #19 IL 38

Sample ID: 1627V2-19-03 0-3

Sample No: 18-7651-009

Date Collected: 12/21/18

Time Collected: 9:45

Date Received: 12/21/18

Date Reported: 01/04/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/02/19				
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: 12/28/18			Preparation Date: 12/26/18	
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



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IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO #19 IL 38
Sample ID: 1627V2-19-03 0-3
Sample No: 18-7651-009

Date Collected: 12/21/18
Time Collected: 9:45
Date Received: 12/21/18
Date Reported: 01/04/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 12/28/18		Preparation Date: 12/26/18		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO #19 IL 38

Sample ID: 1627V2-19-03 0-3

Sample No: 18-7651-009

Date Collected: 12/21/18

Time Collected: 9:45

Date Received: 12/21/18

Date Reported: 01/04/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 12/28/18		Preparation Date: 12/26/18		
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: 12/27/18		Preparation Date: 12/26/18		
Antimony	< 5.0	1.0	mg/kg	W
Arsenic	6.2	1.0	mg/kg	
Barium	101	0.5	mg/kg	
Beryllium	1.2	0.5	mg/kg	
Cadmium	0.5	0.5	mg/kg	
Calcium	6,370	50	mg/kg	
Chromium	23.4	0.5	mg/kg	
Cobalt	11.0	0.5	mg/kg	
Copper	25.9	0.5	mg/kg	
Iron	28,700	5.0	mg/kg	
Lead	14.0	0.5	mg/kg	
Magnesium	6,870	50	mg/kg	
Manganese	337	0.5	mg/kg	
Nickel	46.0	0.5	mg/kg	
Potassium	1,790	50	mg/kg	
Selenium	< 5.0	1.0	mg/kg	W
Silver	0.5	0.2	mg/kg	
Sodium	192	50	mg/kg	
Thallium	< 5.0	1.0	mg/kg	W
Vanadium	34.5	1.0	mg/kg	
Zinc	47.8	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 12/26/18				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2				
Method: 9045D 2004				
Analysis Date: 12/26/18 11:25				
pH @ 25°C, 1:2	8.11		Units	
TCLP Extraction				
Method: 1311				
Analysis Date: 12/26/18				
TCLP Extraction	Complete			



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO #19 IL 38

Sample ID: 1627V2-19-03 0-3

Sample No: 18-7651-009

Date Collected: 12/21/18

Time Collected: 9:45

Date Received: 12/21/18

Date Reported: 01/04/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311		Method: 6010C		
Analysis Date: 12/28/18		Preparation Method 3010A		
		Preparation Date: 12/27/18		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	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	
TCLP Mercury Method 1311		Method: 7470A		
Analysis Date: 12/28/18				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction		Method: 1312		
Analysis Date: 12/26/18				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		
Analysis Date: 12/28/18		Preparation Method 3010A		
		Preparation Date: 12/28/18		
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	0.006	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.013	0.005	mg/L	
Iron	6.1	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	



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Client: HUFF & HUFF INC.

Project ID: IDOT WO #19 IL 38

Sample ID: 1627V2-19-03 0-3

Sample No: 18-7651-009

Date Collected: 12/21/18

Time Collected: 9:45

Date Received: 12/21/18

Date Reported: 01/04/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312 Analysis Date: 12/28/18	Method: 6010C	Preparation Method 3010A Preparation Date: 12/28/18		
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312 Analysis Date: 12/28/18	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	

Sample QC Summary:		Surrogate Recovery		%R Limits	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	93.1	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	92.8	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	93	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	109	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	70.1	45	112
8270C	2-Fluorophenol (Surr)	%R:	49.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	86.3	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	68.1	35	105
8270C	Phenol-d5 (surr)	%R:	59.2	50	100



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO #19 IL 38

Sample ID: 1627V2-Dup-01

Sample No: 18-7651-012

Date Collected: 12/21/18

Time Collected: 11:00

Date Received: 12/21/18

Date Reported: 01/04/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total Method: 2540B				
Analysis Date: 12/21/18				
Total Solids	86.09		%	
Volatile Organic Compounds Method: 5035A/8260B				
Analysis Date: 01/02/19				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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IL ELAP / NELAC Accreditation # 100292

Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO #19 IL 38

Sample ID: 1627V2-Dup-01

Sample No: 18-7651-012

Date Collected: 12/21/18

Time Collected: 11:00

Date Received: 12/21/18

Date Reported: 01/04/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/02/19				
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: 12/28/18		Preparation Date: 12/26/18		
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



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Client: HUFF & HUFF INC.

Project ID: IDOT WO #19 IL 38

Sample ID: 1627V2-Dup-01

Sample No: 18-7651-012

Date Collected: 12/21/18

Time Collected: 11:00

Date Received: 12/21/18

Date Reported: 01/04/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 12/28/18		Preparation Date: 12/26/18		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO #19 IL 38

Sample ID: 1627V2-Dup-01

Sample No: 18-7651-012

Date Collected: 12/21/18

Time Collected: 11:00

Date Received: 12/21/18

Date Reported: 01/04/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 12/28/18		Preparation Date: 12/26/18		
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: 12/27/18		Preparation Date: 12/26/18		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.9	1.0	mg/kg	
Barium	38.4	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	88,300	50	mg/kg	
Chromium	10.5	0.5	mg/kg	
Cobalt	6.1	0.5	mg/kg	
Copper	13.7	0.5	mg/kg	
Iron	12,900	5.0	mg/kg	
Lead	6.0	0.5	mg/kg	
Magnesium	48,000	50	mg/kg	
Manganese	332	0.5	mg/kg	
Nickel	14.9	0.5	mg/kg	
Potassium	2,300	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	205	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	15.6	1.0	mg/kg	
Zinc	22.5	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 12/26/18				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2				
Method: 9045D 2004				
Analysis Date: 12/26/18 11:25				
pH @ 25°C, 1:2	8.19		Units	
TCLP Extraction				
Method: 1311				
Analysis Date: 12/26/18				
TCLP Extraction	Complete			



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Client: HUFF & HUFF INC.

Project ID: IDOT WO #19 IL 38

Sample ID: 1627V2-Dup-01

Sample No: 18-7651-012

Date Collected: 12/21/18

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Date Reported: 01/04/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311		Method: 6010C		
Analysis Date: 12/28/18		Preparation Method 3010A		
		Preparation Date: 12/27/18		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	5.6	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	0.018	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: 12/28/18				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction		Method: 1312		
Analysis Date: 12/26/18				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		
Analysis Date: 12/28/18		Preparation Method 3010A		
		Preparation Date: 12/28/18		
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	0.007	0.005	mg/L	
Iron	2.8	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	



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IL ELAP / NELAC Accreditation # 100292

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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO #19 IL 38

Sample ID: 1627V2-Dup-01

Sample No: 18-7651-012

Date Collected: 12/21/18

Time Collected: 11:00

Date Received: 12/21/18

Date Reported: 01/04/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		
Analysis Date: 12/28/18		Preparation Method 3010A		
		Preparation Date: 12/28/18		
Zinc	< 0.1	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 12/28/18				
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: 94.8	86	117
5035A/8260B	d8-Toluene (Surr)	%R: 92.9	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 97.7	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R: 111.6	59	131
8270C	2-Fluorobiphenyl (Surr)	%R: 75.1	45	112
8270C	2-Fluorophenol (Surr)	%R: 54	41	84
8270C	d14-Terphenyl (Surr)	%R: 86.1	56	120
8270C	d5-Nitrobenzene (Surr)	%R: 68.8	35	105
8270C	Phenol-d5 (surr)	%R: 62.9	50	100



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO-19
Sample ID: 1627V2-49-01 (0-2)
Sample No: 19-0138-018

Date Collected: 01/09/19
Time Collected: 9:21
Date Received: 01/09/19
Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total Method: 2540B				
Analysis Date: 01/09/19				
Total Solids	81.07		%	
Volatile Organic Compounds Method: 5035A/8260B				
Analysis Date: 01/15/19				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-49-01 (0-2)

Sample No: 19-0138-018

Date Collected: 01/09/19

Time Collected: 9:21

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/15/19				
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: 01/18/19		Preparation Date: 01/14/19		
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-49-01 (0-2)

Sample No: 19-0138-018

Date Collected: 01/09/19

Time Collected: 9:21

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Preparation Method 3540C		
Analysis Date: 01/18/19		Preparation Date: 01/14/19		
Method: 8270C				
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO-19
Sample ID: 1627V2-49-01 (0-2)
Sample No: 19-0138-018

Date Collected: 01/09/19
Time Collected: 9:21
Date Received: 01/09/19
Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 01/18/19		Preparation Date: 01/14/19		
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: 01/10/19		Preparation Date: 01/10/19		
Antimony	1.2	1.0	mg/kg	
Arsenic	3.0	1.0	mg/kg	
Barium	71.8	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	3,330	50	mg/kg	
Chromium	12.8	0.5	mg/kg	
Cobalt	3.9	0.5	mg/kg	
Copper	13.2	0.5	mg/kg	
Iron	13,700	5.0	mg/kg	
Lead	8.7	0.5	mg/kg	
Magnesium	2,930	50	mg/kg	
Manganese	220	0.5	mg/kg	
Nickel	16.3	0.5	mg/kg	
Potassium	1,070	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	591	50	mg/kg	
Thallium	1.2	1.0	mg/kg	
Vanadium	17.0	1.0	mg/kg	
Zinc	33.6	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 01/10/19				
Mercury	0.07	0.05	mg/kg	
pH @ 25°C, 1:2				
Method: 9045D 2004				
Analysis Date: 01/14/19 13:00				
pH @ 25°C, 1:2	7.91		Units	
TCLP Extraction				
Method: 1311				
Analysis Date: 01/11/19				
TCLP Extraction	Complete			



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO-19
Sample ID: 1627V2-49-01 (0-2)
Sample No: 19-0138-018

Date Collected: 01/09/19
Time Collected: 9:21
Date Received: 01/09/19
Date Reported: 01/21/19

Results are reported on a dry weight basis.

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 01/16/19		Preparation Date: 01/15/19		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	1.7	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 01/16/19				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 01/11/19				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A				
Analysis Date: 01/16/19		Preparation Date: 01/14/19		
Arsenic	0.039	0.010	mg/L	
Barium	1.8	1.0	mg/L	
Beryllium	0.007	0.004	mg/L	
Cadmium	< 0.010	0.005	mg/L	W
Chromium	0.199	0.005	mg/L	
Cobalt	< 0.2	0.1	mg/L	W
Copper	0.165	0.005	mg/L	
Iron	198	0.1	mg/L	
Lead	0.038	0.005	mg/L	
Manganese	0.8	0.1	mg/L	
Nickel	0.2	0.1	mg/L	
Selenium	< 0.020	0.010	mg/L	W
Silver	< 0.010	0.005	mg/L	W



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-49-01 (0-2)

Sample No: 19-0138-018

Date Collected: 01/09/19

Time Collected: 9:21

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312 Analysis Date: 01/16/19	Method: 6010C	Preparation Method 3010A Preparation Date: 01/14/19		
Zinc	0.5	0.1	mg/L	
SPLP Mercury Method 1312 Analysis Date: 01/17/19	Method: 7470A			
Mercury	0.0006	0.0005	mg/L	

Sample QC Summary:		Surrogate Recovery		%R Limits	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98.4	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.4	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	101.6	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	103.8	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	67.7	45	112
8270C	2-Fluorophenol (Surr)	%R:	56	41	84
8270C	d14-Terphenyl (Surr)	%R:	88.4	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	73.3	35	105
8270C	Phenol-d5 (surr)	%R:	68	50	100



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO-19
Sample ID: 1627V2-51-01 (0-2)
Sample No: 19-0138-021

Date Collected: 01/09/19
Time Collected: 9:52
Date Received: 01/09/19
Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total Method: 2540B				
Analysis Date: 01/09/19				
Total Solids	77.93		%	
Volatile Organic Compounds Method: 5035A/8260B				
Analysis Date: 01/15/19				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-51-01 (0-2)

Sample No: 19-0138-021

Date Collected: 01/09/19

Time Collected: 9:52

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds				
Method: 5035A/8260B				
Analysis Date: 01/15/19				
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				
Preparation Date: 01/14/19				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO-19
Sample ID: 1627V2-51-01 (0-2)
Sample No: 19-0138-021

Date Collected: 01/09/19
Time Collected: 9:52
Date Received: 01/09/19
Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 01/15/19		Preparation Date: 01/14/19		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-51-01 (0-2)

Sample No: 19-0138-021

Date Collected: 01/09/19

Time Collected: 9:52

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 01/15/19		Preparation Date: 01/14/19		
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: 01/10/19		Preparation Date: 01/10/19		
Antimony	1.6	1.0	mg/kg	
Arsenic	7.1	1.0	mg/kg	
Barium	83.8	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	2,230	50	mg/kg	
Chromium	16.8	0.5	mg/kg	
Cobalt	5.4	0.5	mg/kg	
Copper	16.1	0.5	mg/kg	
Iron	20,100	5.0	mg/kg	
Lead	8.4	0.5	mg/kg	
Magnesium	3,280	50	mg/kg	
Manganese	330	0.5	mg/kg	
Nickel	16.6	0.5	mg/kg	
Potassium	711	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	567	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	30.8	1.0	mg/kg	
Zinc	35.2	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 01/11/19				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2				
Method: 9045D 2004				
Analysis Date: 01/15/19				
pH @ 25°C, 1:2	8.26		Units	
TCLP Extraction				
Method: 1311				
Analysis Date: 01/11/19				
TCLP Extraction	Complete			



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO-19
Sample ID: 1627V2-51-01 (0-2)
Sample No: 19-0138-021

Date Collected: 01/09/19
Time Collected: 9:52
Date Received: 01/09/19
Date Reported: 01/21/19

Results are reported on a dry weight basis.

Results are reported on a dry weight basis.				
Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311		Method: 6010C		
Analysis Date: 01/16/19		Preparation Method 3010A		
		Preparation Date: 01/16/19		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	0.3	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311		Method: 7470A		
Analysis Date: 01/16/19				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction		Method: 1312		
Analysis Date: 01/11/19				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		
Analysis Date: 01/15/19		Preparation Method 3010A		
		Preparation Date: 01/14/19		
Arsenic	0.025	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	0.108	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.088	0.005	mg/L	
Iron	115	0.1	mg/L	
Lead	0.023	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	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-51-01 (0-2)

Sample No: 19-0138-021

Date Collected: 01/09/19

Time Collected: 9:52

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312 Analysis Date: 01/15/19	Method: 6010C	Preparation Method 3010A Preparation Date: 01/14/19		
Zinc	0.2	0.1	mg/L	
SPLP Mercury Method 1312 Analysis Date: 01/17/19	Method: 7470A			
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: 100.4	86	117
5035A/8260B	d8-Toluene (Surr)	%R: 98.6	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 104.9	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R: 105.4	59	131
8270C	2-Fluorobiphenyl (Surr)	%R: 66.2	45	112
8270C	2-Fluorophenol (Surr)	%R: 48.2	41	84
8270C	d14-Terphenyl (Surr)	%R: 85	56	120
8270C	d5-Nitrobenzene (Surr)	%R: 65.3	35	105
8270C	Phenol-d5 (surr)	%R: 59.1	50	100



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO-19
Sample ID: 1627V2-51-02 (0-2)
Sample No: 19-0138-022

Date Collected: 01/09/19
Time Collected: 9:50
Date Received: 01/09/19
Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total Method: 2540B				
Analysis Date: 01/09/19				
Total Solids	76.81		%	
Volatile Organic Compounds Method: 5035A/8260B				
Analysis Date: 01/15/19				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO-19
Sample ID: 1627V2-51-02 (0-2)
Sample No: 19-0138-022

Date Collected: 01/09/19
Time Collected: 9:50
Date Received: 01/09/19
Date Reported: 01/21/19

Results are reported on a dry weight basis.

Results are reported on a dry weight basis.				
Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/15/19				
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: 01/15/19		Preparation Date: 01/14/19		
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-51-02 (0-2)

Sample No: 19-0138-022

Date Collected: 01/09/19

Time Collected: 9:50

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 01/15/19		Preparation Date: 01/14/19		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-51-02 (0-2)

Sample No: 19-0138-022

Date Collected: 01/09/19

Time Collected: 9:50

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 01/15/19		Preparation Date: 01/14/19		
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: 01/10/19		Preparation Date: 01/10/19		
Antimony	1.9	1.0	mg/kg	
Arsenic	5.7	1.0	mg/kg	
Barium	218	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	2,910	50	mg/kg	
Chromium	20.7	0.5	mg/kg	
Cobalt	4.8	0.5	mg/kg	
Copper	18.2	0.5	mg/kg	
Iron	23,000	5.0	mg/kg	
Lead	6.6	0.5	mg/kg	
Magnesium	4,180	50	mg/kg	
Manganese	209	0.5	mg/kg	
Nickel	15.8	0.5	mg/kg	
Potassium	806	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.6	0.2	mg/kg	
Sodium	695	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	31.7	1.0	mg/kg	
Zinc	46.1	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 01/11/19				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2				
Method: 9045D 2004				
Analysis Date: 01/15/19				
pH @ 25°C, 1:2	8.16		Units	
TCLP Extraction				
Method: 1311				
Analysis Date: 01/11/19				
TCLP Extraction	Complete			



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO-19
Sample ID: 1627V2-51-02 (0-2)
Sample No: 19-0138-022

Date Collected: 01/09/19
Time Collected: 9:50
Date Received: 01/09/19
Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 01/16/19 Preparation Date: 01/16/19				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	< 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: 01/16/19				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 01/11/19				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A				
Analysis Date: 01/15/19 Preparation Date: 01/14/19				
Arsenic	0.015	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	0.123	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.097	0.005	mg/L	
Iron	128	0.1	mg/L	
Lead	0.024	0.005	mg/L	
Manganese	0.5	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-51-02 (0-2)

Sample No: 19-0138-022

Date Collected: 01/09/19

Time Collected: 9:50

Date Received: 01/09/19

Date Reported: 01/21/19

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: 01/15/19 Preparation Date: 01/14/19				
Zinc	0.3	0.1	mg/L	
SPLP Mercury Method 1312 Method: 7470A				
Analysis Date: 01/17/19				
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: 98.6	86	117
5035A/8260B	d8-Toluene (Surr)	%R: 97.4	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 101.4	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R: 103.9	59	131
8270C	2-Fluorobiphenyl (Surr)	%R: 61.7	45	112
8270C	2-Fluorophenol (Surr)	%R: 49.8	41	84
8270C	d14-Terphenyl (Surr)	%R: 80.5	56	120
8270C	d5-Nitrobenzene (Surr)	%R: 63.6	35	105
8270C	Phenol-d5 (surr)	%R: 59	50	100



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-52-01 (0-2)

Sample No: 19-0138-023

Date Collected: 01/09/19

Time Collected: 10:05

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total Method: 2540B				
Analysis Date: 01/09/19				
Total Solids	79.60		%	
Volatile Organic Compounds Method: 5035A/8260B				
Analysis Date: 01/15/19				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-52-01 (0-2)

Sample No: 19-0138-023

Date Collected: 01/09/19

Time Collected: 10:05

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/15/19				
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: 01/15/19			Preparation Date: 01/14/19	
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO-19
Sample ID: 1627V2-52-01 (0-2)
Sample No: 19-0138-023

Date Collected: 01/09/19
Time Collected: 10:05
Date Received: 01/09/19
Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Preparation Method 3540C		
Analysis Date: 01/15/19		Preparation Date: 01/14/19		
Method: 8270C				
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO-19
Sample ID: 1627V2-52-01 (0-2)
Sample No: 19-0138-023

Date Collected: 01/09/19
Time Collected: 10:05
Date Received: 01/09/19
Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 01/15/19		Preparation Date: 01/14/19		
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: 01/10/19		Preparation Date: 01/10/19		
Antimony	1.1	1.0	mg/kg	
Arsenic	3.1	1.0	mg/kg	
Barium	121	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	3,400	50	mg/kg	
Chromium	9.1	0.5	mg/kg	
Cobalt	7.0	0.5	mg/kg	
Copper	10.4	0.5	mg/kg	
Iron	10,700	5.0	mg/kg	
Lead	12.1	0.5	mg/kg	
Magnesium	1,470	50	mg/kg	
Manganese	895	0.5	mg/kg	
Nickel	10.2	0.5	mg/kg	
Potassium	574	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	333	50	mg/kg	
Thallium	2.9	1.0	mg/kg	
Vanadium	19.0	1.0	mg/kg	
Zinc	34.7	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 01/11/19				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2				
Method: 9045D 2004				
Analysis Date: 01/15/19				
pH @ 25°C, 1:2	8.31		Units	
TCLP Extraction				
Method: 1311				
Analysis Date: 01/11/19				
TCLP Extraction	Complete			



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO-19
Sample ID: 1627V2-52-01 (0-2)
Sample No: 19-0138-023

Date Collected: 01/09/19
Time Collected: 10:05
Date Received: 01/09/19
Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311		Method: 6010C		
Analysis Date: 01/16/19		Preparation Method 3010A		
		Preparation Date: 01/16/19		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	0.8	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: 01/16/19

Mercury	< 0.0005	0.0005	mg/L
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SPLP Extraction

Method: 1312

Analysis Date: 01/11/19

SPLP Metals Extraction

Complete

SPLP Metals Method 1312

Method: 6010C

Analysis Date: 01/15/19

Preparation Method 3010A

Preparation Date: 01/14/19

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	0.040	0.005	mg/L
Cobalt	< 0.1	0.1	mg/L
Copper	0.031	0.005	mg/L
Iron	35.8	0.1	mg/L
Lead	0.023	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



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-52-01 (0-2)

Sample No: 19-0138-023

Date Collected: 01/09/19

Time Collected: 10:05

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312 Analysis Date: 01/15/19	Method: 6010C	Preparation Method 3010A Preparation Date: 01/14/19		
Zinc	0.2	0.1	mg/L	
SPLP Mercury Method 1312 Analysis Date: 01/17/19	Method: 7470A			
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: 98.7	86	117
5035A/8260B	d8-Toluene (Surr)	%R: 99.4	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 106.1	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R: 106.2	59	131
8270C	2-Fluorobiphenyl (Surr)	%R: 70.5	45	112
8270C	2-Fluorophenol (Surr)	%R: 43.7	41	84
8270C	d14-Terphenyl (Surr)	%R: 92	56	120
8270C	d5-Nitrobenzene (Surr)	%R: 66.8	35	105
8270C	Phenol-d5 (surr)	%R: 56.9	50	100



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO-19
Sample ID: 1627V2-66-01 (0-3)
Sample No: 19-0138-040

Date Collected: 01/09/19
Time Collected: 10:43
Date Received: 01/09/19
Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total Method: 2540B				
Analysis Date: 01/10/19				
Total Solids	84.98		%	
Volatile Organic Compounds Method: 5035A/8260B				
Analysis Date: 01/15/19				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-66-01 (0-3)

Sample No: 19-0138-040

Date Collected: 01/09/19

Time Collected: 10:43

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Results are reported on a dry weight basis.				
Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/15/19				
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: 01/16/19		Preparation Date: 01/15/19	
Acenaphthene	< 330	330	ug/kg
Acenaphthylene	< 330	330	ug/kg
Anthracene	< 330	330	ug/kg
Benzidine	< 330	330	ug/kg
Benzo(a)anthracene	< 330	330	ug/kg
Benzo(a)pyrene	< 90	90	ug/kg
Benzo(b)fluoranthene	< 330	330	ug/kg
Benzo(k)fluoranthene	< 330	330	ug/kg
Benzo(ghi)perylene	< 330	330	ug/kg
Benzoic acid	< 330	330	ug/kg
Benzyl alcohol	< 330	330	ug/kg
bis(2-Chloroethoxy)methane	< 330	330	ug/kg
bis(2-Chloroethyl)ether	< 330	330	ug/kg
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg
4-Bromophenyl phenyl ether	< 330	330	ug/kg
Butyl benzyl phthalate	< 330	330	ug/kg
Carbazole	< 330	330	ug/kg
4-Chloroaniline	< 330	330	ug/kg
4-Chloro-3-methylphenol	< 330	330	ug/kg
2-Chloronaphthalene	< 330	330	ug/kg
2-Chlorophenol	< 330	330	ug/kg
4-Chlorophenyl phenyl ether	< 330	330	ug/kg
Chrysene	< 330	330	ug/kg
Dibenzo(a,h)anthracene	< 90	90	ug/kg
Dibenzofuran	< 330	330	ug/kg
1,2-Dichlorobenzene	< 330	330	ug/kg
1,3-Dichlorobenzene	< 330	330	ug/kg
1,4-Dichlorobenzene	< 330	330	ug/kg
3,3'-Dichlorobenzidine	< 660	660	ug/kg
2,4-Dichlorophenol	< 330	330	ug/kg



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO-19
Sample ID: 1627V2-66-01 (0-3)
Sample No: 19-0138-040

Date Collected: 01/09/19
Time Collected: 10:43
Date Received: 01/09/19
Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		
Analysis Date: 01/16/19		Preparation Method 3540C		
		Preparation Date: 01/15/19		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-66-01 (0-3)

Sample No: 19-0138-040

Date Collected: 01/09/19

Time Collected: 10:43

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 01/16/19		Preparation Date: 01/15/19		
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: 01/11/19		Preparation Date: 01/11/19		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.9	1.0	mg/kg	
Barium	39.0	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	58,100	50	mg/kg	
Chromium	12.2	0.5	mg/kg	
Cobalt	7.8	0.5	mg/kg	
Copper	16.9	0.5	mg/kg	
Iron	15,000	5.0	mg/kg	
Lead	10.4	0.5	mg/kg	
Magnesium	36,600	50	mg/kg	
Manganese	355	0.5	mg/kg	
Nickel	19.7	0.5	mg/kg	
Potassium	2,230	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	143	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	18.7	1.0	mg/kg	
Zinc	37.5	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 01/11/19				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2				
Method: 9045D 2004				
Analysis Date: 01/15/19				
pH @ 25°C, 1:2	8.32		Units	
TCLP Extraction				
Method: 1311				
Analysis Date: 01/11/19				
TCLP Extraction	Complete			



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IL ELAP / NELAC Accreditation # 100292

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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO-19
Sample ID: 1627V2-66-01 (0-3)
Sample No: 19-0138-040

Date Collected: 01/09/19
Time Collected: 10:43
Date Received: 01/09/19
Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311		Method: 6010C		
Analysis Date: 01/18/19		Preparation Method 3010A		
		Preparation Date: 01/16/19		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	0.5	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311		Method: 7470A		
Analysis Date: 01/16/19				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction		Method: 1312		
Analysis Date: 01/11/19				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		
Analysis Date: 01/15/19		Preparation Method 3010A		
		Preparation Date: 01/14/19		
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	0.019	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.025	0.005	mg/L	
Iron	21.8	0.1	mg/L	
Lead	0.008	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	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-66-01 (0-3)

Sample No: 19-0138-040

Date Collected: 01/09/19

Time Collected: 10:43

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		
Analysis Date: 01/15/19		Preparation Method 3010A		
		Preparation Date: 01/14/19		
Zinc	< 0.1	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 01/17/19				
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: 98.9	86	117
5035A/8260B	d8-Toluene (Surr)	%R: 98.1	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 98.1	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R: 87.1	59	131
8270C	2-Fluorobiphenyl (Surr)	%R: 57.3	45	112
8270C	2-Fluorophenol (Surr)	%R: 41.7	41	84
8270C	d14-Terphenyl (Surr)	%R: 64.9	56	120
8270C	d5-Nitrobenzene (Surr)	%R: 54.9	35	105
8270C	Phenol-d5 (surr)	%R: 52.4	50	100



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO-19
Sample ID: 1627V2-67-01 (0-3)
Sample No: 19-0138-041

Date Collected: 01/09/19
Time Collected: 10:48
Date Received: 01/09/19
Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total Method: 2540B				
Analysis Date: 01/10/19				
Total Solids	85.96		%	
Volatile Organic Compounds Method: 5035A/8260B				
Analysis Date: 01/15/19				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO-19
Sample ID: 1627V2-67-01 (0-3)
Sample No: 19-0138-041

Date Collected: 01/09/19
Time Collected: 10:48
Date Received: 01/09/19
Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds				
Method: 5035A/8260B				
Analysis Date: 01/15/19				
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: 01/16/19		Preparation Date: 01/15/19		
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



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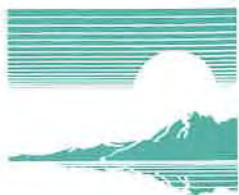
Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO-19
Sample ID: 1627V2-67-01 (0-3)
Sample No: 19-0138-041

Date Collected: 01/09/19
Time Collected: 10:48
Date Received: 01/09/19
Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 01/16/19		Preparation Date: 01/15/19		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO-19
Sample ID: 1627V2-67-01 (0-3)
Sample No: 19-0138-041

Date Collected: 01/09/19
Time Collected: 10:48
Date Received: 01/09/19
Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 01/16/19		Preparation Date: 01/15/19		
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: 01/11/19		Preparation Date: 01/11/19		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.3	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	70,700	50	mg/kg	
Chromium	10.8	0.5	mg/kg	
Cobalt	7.8	0.5	mg/kg	
Copper	15.2	0.5	mg/kg	
Iron	12,900	5.0	mg/kg	
Lead	7.7	0.5	mg/kg	
Magnesium	36,400	50	mg/kg	
Manganese	316	0.5	mg/kg	
Nickel	17.3	0.5	mg/kg	
Potassium	2,290	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	191	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	15.1	1.0	mg/kg	
Zinc	39.3	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 01/11/19				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2				
Method: 9045D 2004				
Analysis Date: 01/15/19				
pH @ 25°C, 1:2	8.65		Units	
TCLP Extraction				
Method: 1311				
Analysis Date: 01/11/19				
TCLP Extraction	Complete			



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO-19
Sample ID: 1627V2-67-01 (0-3)
Sample No: 19-0138-041

Date Collected: 01/09/19
Time Collected: 10:48
Date Received: 01/09/19
Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311		Method: 6010C		
Analysis Date: 01/17/19		Preparation Method 3010A		
		Preparation Date: 01/17/19		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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: 01/16/19				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction		Method: 1312		
Analysis Date: 01/11/19				
SPLP Metals Extraction		Complete		
SPLP Metals Method 1312		Method: 6010C		
Analysis Date: 01/17/19		Preparation Method 3010A		
		Preparation Date: 01/16/19		
Arsenic	0.034	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	0.059	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.091	0.005	mg/L	
Iron	75.4	0.1	mg/L	
Lead	0.033	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	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO-19

Sample ID: 1627V2-67-01 (0-3)

Sample No: 19-0138-041

Date Collected: 01/09/19

Time Collected: 10:48

Date Received: 01/09/19

Date Reported: 01/21/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		
Analysis Date: 01/17/19		Preparation Method 3010A		
		Preparation Date: 01/16/19		
Zinc	0.3	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 01/17/19				
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: 101.3	86	117
5035A/8260B	d8-Toluene (Surr)	%R: 99.4	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 103.9	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R: 98.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R: 66.6	45	112
8270C	2-Fluorophenol (Surr)	%R: 52.2	41	84
8270C	d14-Terphenyl (Surr)	%R: 74.6	56	120
8270C	d5-Nitrobenzene (Surr)	%R: 67.5	35	105
8270C	Phenol-d5 (surr)	%R: 63.4	50	100



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO19

Sample ID: 162V2-69-01 (0-3)

Sample No: 19-0169-004

Date Collected: 01/10/19

Time Collected: 12:51

Date Received: 01/10/19

Date Reported: 01/23/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total				
Method: 2540B				
Analysis Date: 01/11/19				
Total Solids	81.78		%	
Volatile Organic Compounds				
Method: 5035A/8260B				
Analysis Date: 01/16/19				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO19

Sample ID: 162V2-69-01 (0-3)

Sample No: 19-0169-004

Date Collected: 01/10/19

Time Collected: 12:51

Date Received: 01/10/19

Date Reported: 01/23/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/16/19				
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: 01/17/19			Preparation Date: 01/16/19	
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzydine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



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IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO19

Sample ID: 162V2-69-01 (0-3)

Sample No: 19-0169-004

Date Collected: 01/10/19

Time Collected: 12:51

Date Received: 01/10/19

Date Reported: 01/23/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 01/17/19		Preparation Date: 01/16/19		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO19

Sample ID: 162V2-69-01 (0-3)

Sample No: 19-0169-004

Date Collected: 01/10/19

Time Collected: 12:51

Date Received: 01/10/19

Date Reported: 01/23/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 01/17/19		Preparation Date: 01/16/19		
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: 01/14/19		Preparation Date: 01/14/19		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.5	1.0	mg/kg	
Barium	89.7	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	23,400	50	mg/kg	
Chromium	15.5	0.5	mg/kg	
Cobalt	6.7	0.5	mg/kg	
Copper	16.3	0.5	mg/kg	
Iron	14,100	5.0	mg/kg	
Lead	79.6	0.5	mg/kg	
Magnesium	14,200	50	mg/kg	
Manganese	490	0.5	mg/kg	
Nickel	14.3	0.5	mg/kg	
Potassium	1,250	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	166	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	24.7	1.0	mg/kg	
Zinc	68.5	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 01/14/19				
Mercury	0.08	0.05	mg/kg	
pH @ 25°C, 1:2				
Method: 9045D 2004				
Analysis Date: 01/16/19 11:30				
pH @ 25°C, 1:2	8.60		Units	
TCLP Extraction				
Method: 1311				
Analysis Date: 01/15/19				
TCLP Extraction	Complete			



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO19

Sample ID: 162V2-69-01 (0-3)

Sample No: 19-0169-004

Date Collected: 01/10/19

Time Collected: 12:51

Date Received: 01/10/19

Date Reported: 01/23/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311		Method: 6010C		
Analysis Date: 01/18/19		Preparation Method 3010A		
		Preparation Date: 01/17/19		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	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	< 0.1	0.1	mg/L	

TCLP Mercury Method 1311

Method: 7470A

Analysis Date: 01/17/19

Mercury	< 0.0005	0.0005	mg/L
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SPLP Extraction

Method: 1312

Analysis Date: 01/15/19

SPLP Metals Extraction

Complete

SPLP Metals Method 1312

Method: 6010C

Analysis Date: 01/18/19

Preparation Method 3010A

Preparation Date: 01/17/19

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	0.015	0.005	mg/L
Cobalt	< 0.1	0.1	mg/L
Copper	0.013	0.005	mg/L
Iron	13.6	0.1	mg/L
Lead	0.020	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



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO19

Sample ID: 162V2-69-01 (0-3)

Sample No: 19-0169-004

Date Collected: 01/10/19

Time Collected: 12:51

Date Received: 01/10/19

Date Reported: 01/23/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		
Analysis Date: 01/18/19		Preparation Method 3010A		
		Preparation Date: 01/17/19		
Zinc	< 0.1	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 01/18/19				
Mercury	< 0.0005	0.0005	mg/L	

Sample QC Summary:		Surrogate Recovery		%R Limits	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	123	*	86 - 117
5035A/8260B	d8-Toluene (Surr)	%R:	121	*	90 - 110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	122	*	77 - 120
8270C	2,4,6-Tribromophenol (Surr)	%R:	136	*	59 - 131
8270C	2-Fluorobiphenyl (Surr)	%R:	85		45 - 112
8270C	2-Fluorophenol (Surr)	%R:	72		41 - 84
8270C	d14-Terphenyl (Surr)	%R:	107		56 - 120
8270C	d5-Nitrobenzene (Surr)	%R:	90		35 - 105
8270C	Phenol-d5 (surr)	%R:	81		50 - 100



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO19

Sample ID: 162V2-69-03 (0-3)

Sample No: 19-0169-006

Date Collected: 01/10/19

Time Collected: 12:57

Date Received: 01/10/19

Date Reported: 01/23/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total Method: 2540B				
Analysis Date: 01/11/19				
Total Solids	85.01		%	
Volatile Organic Compounds Method: 5035A/8260B				
Analysis Date: 01/16/19				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO19

Sample ID: 162V2-69-03 (0-3)

Sample No: 19-0169-006

Date Collected: 01/10/19

Time Collected: 12:57

Date Received: 01/10/19

Date Reported: 01/23/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/16/19				
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: 01/17/19			Preparation Date: 01/16/19
Acenaphthene	< 330	330	ug/kg
Acenaphthylene	< 330	330	ug/kg
Anthracene	< 330	330	ug/kg
Benzidine	< 330	330	ug/kg
Benzo(a)anthracene	< 330	330	ug/kg
Benzo(a)pyrene	< 90	90	ug/kg
Benzo(b)fluoranthene	< 330	330	ug/kg
Benzo(k)fluoranthene	< 330	330	ug/kg
Benzo(ghi)perylene	< 330	330	ug/kg
Benzoic acid	< 330	330	ug/kg
Benzyl alcohol	< 330	330	ug/kg
bis(2-Chloroethoxy)methane	< 330	330	ug/kg
bis(2-Chloroethyl)ether	< 330	330	ug/kg
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg
4-Bromophenyl phenyl ether	< 330	330	ug/kg
Butyl benzyl phthalate	< 330	330	ug/kg
Carbazole	< 330	330	ug/kg
4-Chloroaniline	< 330	330	ug/kg
4-Chloro-3-methylphenol	< 330	330	ug/kg
2-Chloronaphthalene	< 330	330	ug/kg
2-Chlorophenol	< 330	330	ug/kg
4-Chlorophenyl phenyl ether	< 330	330	ug/kg
Chrysene	< 330	330	ug/kg
Dibenzo(a,h)anthracene	< 90	90	ug/kg
Dibenzofuran	< 330	330	ug/kg
1,2-Dichlorobenzene	< 330	330	ug/kg
1,3-Dichlorobenzene	< 330	330	ug/kg
1,4-Dichlorobenzene	< 330	330	ug/kg
3,3'-Dichlorobenzidine	< 660	660	ug/kg
2,4-Dichlorophenol	< 330	330	ug/kg



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Client: HUFF & HUFF INC.

Project ID: IDOT WO19

Sample ID: 162V2-69-03 (0-3)

Sample No: 19-0169-006

Date Collected: 01/10/19

Time Collected: 12:57

Date Received: 01/10/19

Date Reported: 01/23/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 01/17/19		Preparation Date: 01/16/19		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO19

Sample ID: 162V2-69-03 (0-3)

Sample No: 19-0169-006

Date Collected: 01/10/19

Time Collected: 12:57

Date Received: 01/10/19

Date Reported: 01/23/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 01/17/19		Preparation Date: 01/16/19		
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: 01/17/19		Preparation Date: 01/14/19		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	10.0	1.0	mg/kg	
Barium	51.8	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	33,000	50	mg/kg	
Chromium	11.8	0.5	mg/kg	
Cobalt	9.5	0.5	mg/kg	
Copper	29.3	0.5	mg/kg	
Iron	18,200	5.0	mg/kg	
Lead	24.6	0.5	mg/kg	
Magnesium	21,800	50	mg/kg	
Manganese	276	0.5	mg/kg	
Nickel	21.2	0.5	mg/kg	
Potassium	997	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	203	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	18.8	1.0	mg/kg	
Zinc	41.3	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 01/14/19				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2				
Method: 9045D 2004				
Analysis Date: 01/16/19 11:30				
pH @ 25°C, 1:2	8.64		Units	
TCLP Extraction				
Method: 1311				
Analysis Date: 01/15/19				
TCLP Extraction	Complete			



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO19

Sample ID: 162V2-69-03 (0-3)

Sample No: 19-0169-006

Date Collected: 01/10/19

Time Collected: 12:57

Date Received: 01/10/19

Date Reported: 01/23/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311		Method: 6010C		
Analysis Date: 01/18/19		Preparation Method 3010A		
		Preparation Date: 01/17/19		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	1.7	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

TCLP Mercury Method 1311

Method: 7470A

Analysis Date: 01/17/19

Mercury	< 0.0005	0.0005	mg/L
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SPLP Extraction

Method: 1312

Analysis Date: 01/15/19

SPLP Metals Extraction	Complete
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SPLP Metals Method 1312

Method: 6010C

Analysis Date: 01/18/19

Preparation Method 3010A

Preparation Date: 01/17/19

Arsenic	< 0.010	0.010	mg/L
Barium	< 1.0	1.0	mg/L
Beryllium	< 0.004	0.004	mg/L
Cadmium	< 0.005	0.005	mg/L
Chromium	0.026	0.005	mg/L
Cobalt	< 0.1	0.1	mg/L
Copper	0.036	0.005	mg/L
Iron	26.2	0.1	mg/L
Lead	0.011	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



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IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO19

Sample ID: 162V2-69-03 (0-3)

Sample No: 19-0169-006

Date Collected: 01/10/19

Time Collected: 12:57

Date Received: 01/10/19

Date Reported: 01/23/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		
Analysis Date: 01/18/19		Preparation Method 3010A		
		Preparation Date: 01/17/19		
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 01/18/19				
Mercury	< 0.0005	0.0005	mg/L	

Sample QC Summary:		Surrogate Recovery		%R Limits	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	117	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	116	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	116	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	128	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	87	45	112
8270C	2-Fluorophenol (Surr)	%R:	71	41	84
8270C	d14-Terphenyl (Surr)	%R:	107	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	86	35	105
8270C	Phenol-d5 (surr)	%R:	79	50	100



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO19

Sample ID: 162V2-73-01 (0-4)

Sample No: 19-0169-007

Date Collected: 01/10/19

Time Collected: 12:42

Date Received: 01/10/19

Date Reported: 01/23/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total Method: 2540B				
Analysis Date: 01/11/19				
Total Solids	86.23		%	
Volatile Organic Compounds Method: 5035A/8260B				
Analysis Date: 01/16/19				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO19

Sample ID: 162V2-73-01 (0-4)

Sample No: 19-0169-007

Date Collected: 01/10/19

Time Collected: 12:42

Date Received: 01/10/19

Date Reported: 01/23/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/16/19				
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: 01/17/19		Preparation Date: 01/16/19	
Acenaphthene	< 330	330	ug/kg
Acenaphthylene	< 330	330	ug/kg
Anthracene	< 330	330	ug/kg
Benzidine	< 330	330	ug/kg
Benzo(a)anthracene	< 330	330	ug/kg
Benzo(a)pyrene	< 90	90	ug/kg
Benzo(b)fluoranthene	< 330	330	ug/kg
Benzo(k)fluoranthene	< 330	330	ug/kg
Benzo(ghi)perylene	< 330	330	ug/kg
Benzoic acid	< 330	330	ug/kg
Benzyl alcohol	< 330	330	ug/kg
bis(2-Chloroethoxy)methane	< 330	330	ug/kg
bis(2-Chloroethyl)ether	< 330	330	ug/kg
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg
4-Bromophenyl phenyl ether	< 330	330	ug/kg
Butyl benzyl phthalate	< 330	330	ug/kg
Carbazole	< 330	330	ug/kg
4-Chloroaniline	< 330	330	ug/kg
4-Chloro-3-methylphenol	< 330	330	ug/kg
2-Chloronaphthalene	< 330	330	ug/kg
2-Chlorophenol	< 330	330	ug/kg
4-Chlorophenyl phenyl ether	< 330	330	ug/kg
Chrysene	< 330	330	ug/kg
Dibenzo(a,h)anthracene	< 90	90	ug/kg
Dibenzofuran	< 330	330	ug/kg
1,2-Dichlorobenzene	< 330	330	ug/kg
1,3-Dichlorobenzene	< 330	330	ug/kg
1,4-Dichlorobenzene	< 330	330	ug/kg
3,3'-Dichlorobenzidine	< 660	660	ug/kg
2,4-Dichlorophenol	< 330	330	ug/kg



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO19

Sample ID: 162V2-73-01 (0-4)

Sample No: 19-0169-007

Date Collected: 01/10/19

Time Collected: 12:42

Date Received: 01/10/19

Date Reported: 01/23/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 01/17/19		Preparation Date: 01/16/19		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO19

Sample ID: 162V2-73-01 (0-4)

Sample No: 19-0169-007

Date Collected: 01/10/19

Time Collected: 12:42

Date Received: 01/10/19

Date Reported: 01/23/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 01/17/19		Preparation Date: 01/16/19		
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: 01/17/19		Preparation Date: 01/14/19		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.5	1.0	mg/kg	
Barium	32.0	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	55,800	50	mg/kg	
Chromium	10.3	0.5	mg/kg	
Cobalt	6.8	0.5	mg/kg	
Copper	15.5	0.5	mg/kg	
Iron	13,600	5.0	mg/kg	
Lead	11.1	0.5	mg/kg	
Magnesium	34,200	50	mg/kg	
Manganese	335	0.5	mg/kg	
Nickel	17.7	0.5	mg/kg	
Potassium	982	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.3	0.2	mg/kg	
Sodium	112	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	16.0	1.0	mg/kg	
Zinc	39.3	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 01/14/19				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2				
Method: 9045D 2004				
Analysis Date: 01/16/19 11:30				
pH @ 25°C, 1:2	8.36		Units	
TCLP Extraction				
Method: 1311				
Analysis Date: 01/15/19				
TCLP Extraction	Complete			



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO19

Sample ID: 162V2-73-01 (0-4)

Sample No: 19-0169-007

Date Collected: 01/10/19

Time Collected: 12:42

Date Received: 01/10/19

Date Reported: 01/23/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311		Method: 6010C		
Analysis Date: 01/18/19		Preparation Method 3010A		
		Preparation Date: 01/17/19		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	0.5	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: 01/17/19

Mercury	< 0.0005	0.0005	mg/L
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SPLP Extraction

Method: 1312

Analysis Date: 01/15/19

SPLP Metals Extraction	Complete
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SPLP Metals Method 1312

Method: 6010C

Analysis Date: 01/18/19

Preparation Method 3010A

Preparation Date: 01/17/19

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	0.012	0.005	mg/L
Cobalt	< 0.1	0.1	mg/L
Copper	0.017	0.005	mg/L
Iron	12.0	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



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Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO19

Sample ID: 162V2-73-01 (0-4)

Sample No: 19-0169-007

Date Collected: 01/10/19

Time Collected: 12:42

Date Received: 01/10/19

Date Reported: 01/23/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		
Analysis Date: 01/18/19		Preparation Method 3010A		
		Preparation Date: 01/17/19		
Zinc	< 0.1	0.1	mg/L	
SPLP Mercury Method 1312		Method: 7470A		
Analysis Date: 01/18/19				
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: 118	*	86 - 117
5035A/8260B	d8-Toluene (Surr)	%R: 116	*	90 - 110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 121	*	77 - 120
8270C	2,4,6-Tribromophenol (Surr)	%R: 131		59 - 131
8270C	2-Fluorobiphenyl (Surr)	%R: 83		45 - 112
8270C	2-Fluorophenol (Surr)	%R: 70		41 - 84
8270C	d14-Terphenyl (Surr)	%R: 109		56 - 120
8270C	d5-Nitrobenzene (Surr)	%R: 84		35 - 105
8270C	Phenol-d5 (surr)	%R: 84		50 - 100



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Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO19
Sample ID: 162V2-82-01 (0-3)
Sample No: 19-0169-015

Date Collected: 01/10/19
Time Collected: 11:45
Date Received: 01/10/19
Date Reported: 01/23/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total Method: 2540B				
Analysis Date: 01/11/19				
Total Solids	82.89		%	
Volatile Organic Compounds Method: 5035A/8260B				
Analysis Date: 01/16/19				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	



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IL ELAP / NELAC Accreditation # 100292

Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO19
Sample ID: 162V2-82-01 (0-3)
Sample No: 19-0169-015

Date Collected: 01/10/19
Time Collected: 11:45
Date Received: 01/10/19
Date Reported: 01/23/19

Results are reported on a dry weight basis.

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 01/16/19				
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: 01/18/19			Preparation Date: 01/17/19	
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	



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1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: HUFF & HUFF INC.

Project ID: IDOT WO19

Sample ID: 162V2-82-01 (0-3)

Sample No: 19-0169-015

Date Collected: 01/10/19

Time Collected: 11:45

Date Received: 01/10/19

Date Reported: 01/23/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 01/18/19		Preparation Date: 01/17/19		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	



**First
Environmental
Laboratories, Inc.**

IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT WO19
Sample ID: 162V2-82-01 (0-3)
Sample No: 19-0169-015

Date Collected: 01/10/19
Time Collected: 11:45
Date Received: 01/10/19
Date Reported: 01/23/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds				
Method: 8270C		Preparation Method 3540C		
Analysis Date: 01/18/19		Preparation Date: 01/17/19		
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: 01/17/19		Preparation Date: 01/14/19		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.2	1.0	mg/kg	
Barium	58.1	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	1,510	50	mg/kg	
Chromium	13.8	0.5	mg/kg	
Cobalt	9.0	0.5	mg/kg	
Copper	12.6	0.5	mg/kg	
Iron	16,900	5.0	mg/kg	
Lead	9.3	0.5	mg/kg	
Magnesium	2,290	50	mg/kg	
Manganese	453	0.5	mg/kg	
Nickel	15.5	0.5	mg/kg	
Potassium	1,030	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	0.4	0.2	mg/kg	
Sodium	1,570	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	22.7	1.0	mg/kg	
Zinc	40.0	1.0	mg/kg	
Total Mercury				
Method: 7471B				
Analysis Date: 01/14/19				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2				
Method: 9045D 2004				
Analysis Date: 01/16/19 11:30				
pH @ 25°C, 1:2	8.46		Units	
TCLP Extraction				
Method: 1311				
Analysis Date: 01/15/19				
TCLP Extraction	Complete			



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Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A Analysis Date: 01/18/19 Preparation Date: 01/17/19				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 1.00	1.0	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	2.6	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: 01/17/19				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312 Analysis Date: 01/15/19				
SPLP Metals Extraction	Complete			
SPLP Metals Method 1312 Method: 6010C Preparation Method 3010A Analysis Date: 01/18/19 Preparation Date: 01/17/19				
Arsenic	0.043	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	0.005	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.142	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.127	0.005	mg/L	
Iron	155	0.1	mg/L	
Lead	0.059	0.005	mg/L	
Manganese	1.9	0.1	mg/L	
Nickel	0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	



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Client: HUFF & HUFF INC.

Project ID: IDOT WO19

Sample ID: 162V2-82-01 (0-3)

Sample No: 19-0169-015

Date Collected: 01/10/19

Time Collected: 11:45

Date Received: 01/10/19

Date Reported: 01/23/19

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312 Analysis Date: 01/18/19	Method: 6010C	Preparation Method 3010A Preparation Date: 01/17/19		
Zinc	0.4	0.1	mg/L	
SPLP Mercury Method 1312 Analysis Date: 01/18/19	Method: 7470A			
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: 122	*	86 - 117
5035A/8260B	d8-Toluene (Surr)	%R: 121	*	90 - 110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 126	*	77 - 120
8270C	2,4,6-Tribromophenol (Surr)	%R: 92.1		59 - 131
8270C	2-Fluorobiphenyl (Surr)	%R: 65.7		45 - 112
8270C	2-Fluorophenol (Surr)	%R: 48.3		41 - 84
8270C	d14-Terphenyl (Surr)	%R: 71.5		56 - 120
8270C	d5-Nitrobenzene (Surr)	%R: 64.1		35 - 105
8270C	Phenol-d5 (surr)	%R: 58.2		50 - 100



Huff & Huff, a Subsidiary of GZA