



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-53-01 (10-15.5)
Sample No: 22-2456-029

Date Collected: 04/12/22
Time Collected: 12:10
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 05/02/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 05/02/22 8:40				
pH @ 25°C, 1:2	7.92		Units	
TCLP Extraction Method: 1311				
Analysis Date: 05/04/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 05/13/22				
Preparation Method 3010A				
Preparation Date: 05/12/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.3	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 05/10/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 05/04/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



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Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/16/22		Preparation Date: 05/11/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/11/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	96.1	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	100	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	105.4	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	84.5	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	74	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	60	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	91	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	73	35 -	105
8270C	Phenol-d5 (surr)	%R:	70	50 -	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-54-02 (0-3)
Sample No: 22-2456-035

Date Collected: 04/12/22
Time Collected: 11:50
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/18/22				
Total Solids	81.50		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



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Date Collected: 04/12/22
Time Collected: 11:50
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/28/22				
Preparation Date: 04/26/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



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Time Collected: 11:50
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Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/28/22		Preparation Date: 04/26/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



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Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/28/22		Preparation Date: 04/26/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals	Method: 6010C	Preparation Method 3050B		
Analysis Date: 05/04/22		Preparation Date: 04/30/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	2.0	1.0	mg/kg	
Barium	45.6	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	104,000	50	mg/kg	
Chromium	15.8	0.5	mg/kg	
Cobalt	5.7	0.5	mg/kg	
Copper	17.8	0.5	mg/kg	
Iron	15,500	5.0	mg/kg	
Lead	16.1	0.5	mg/kg	
Magnesium	36,100	50	mg/kg	
Manganese	322	0.5	mg/kg	
Nickel	16.8	0.5	mg/kg	
Potassium	1,620	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	2,060	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	21.8	1.0	mg/kg	
Zinc	38.3	1.0	mg/kg	



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Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 05/02/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 05/05/22 9:40				
pH @ 25°C, 1:2	8.92		Units	
TCLP Extraction Method: 1311				
Analysis Date: 05/04/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 05/13/22				
Preparation Method 3010A				
Preparation Date: 05/12/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.8	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: 05/10/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 05/04/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



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Sample No: 22-2456-035

Date Collected: 04/12/22
Time Collected: 11:50
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/16/22		Preparation Date: 05/11/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.072	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.061	0.005	mg/L	
Iron	63.2	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	
Zinc	0.3	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/11/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	97.3	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.7	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	106.2	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	82.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	70	45	112
8270C	2-Fluorophenol (Surr)	%R:	55	41	84
8270C	d14-Terphenyl (Surr)	%R:	94	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	70	35	105
8270C	Phenol-d5 (surr)	%R:	66	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-54-02 (3-6.5)
Sample No: 22-2456-036

Date Collected: 04/12/22
Time Collected: 11:55
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/18/22				
Total Solids	86.08		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



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Sample ID: 3919-COV-54-02 (3-6.5)
Sample No: 22-2456-036

Date Collected: 04/12/22
Time Collected: 11:55
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/28/22				
Preparation Date: 04/26/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



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Sample No: 22-2456-036

Date Collected: 04/12/22
Time Collected: 11:55
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/28/22		Preparation Date: 04/26/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-54-02 (3-6.5)
Sample No: 22-2456-036

Date Collected: 04/12/22
Time Collected: 11:55
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/28/22		Preparation Date: 04/26/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals	Method: 6010C	Preparation Method 3050B		
Analysis Date: 05/02/22		Preparation Date: 04/30/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	8.1	1.0	mg/kg	
Barium	33.5	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	86,800	50	mg/kg	
Chromium	15.0	0.5	mg/kg	
Cobalt	10.3	0.5	mg/kg	
Copper	23.0	0.5	mg/kg	
Iron	19,400	5.0	mg/kg	
Lead	12.0	0.5	mg/kg	
Magnesium	46,200	50	mg/kg	
Manganese	594	0.5	mg/kg	
Nickel	27.1	0.5	mg/kg	
Potassium	1,810	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	964	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	19.8	1.0	mg/kg	
Zinc	51.0	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-54-02 (3-6.5)
Sample No: 22-2456-036

Date Collected: 04/12/22
Time Collected: 11:55
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 05/02/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 05/05/22 9:40				
pH @ 25°C, 1:2	8.39		Units	
TCLP Extraction Method: 1311				
Analysis Date: 05/04/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 05/13/22				
Preparation Method 3010A				
Preparation Date: 05/12/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	2.7	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: 05/10/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 05/04/22				
SPLP Metals Extraction	Complete			
Arsenic	0.046	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-54-02 (3-6.5)
Sample No: 22-2456-036

Date Collected: 04/12/22
Time Collected: 11:55
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/16/22		Preparation Date: 05/11/22		
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	0.113	0.005	mg/L	
Iron	103	0.1	mg/L	
Lead	0.048	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	0.3	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/11/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	95.6	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.6	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	105.5	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	93	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	79	45	112
8270C	2-Fluorophenol (Surr)	%R:	81.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	109	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	91	35	105
8270C	Phenol-d5 (surr)	%R:	96.5	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/14/22

Project ID: IDOT 199-014 WO #5 IL 47 Lakewood

Time Collected: 13:12

Sample ID: 56-06 (0-3)

Date Received: 04/15/22

Sample No: 22-2551-032

Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/21/22				
Total Solids	80.63		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/26/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 56-06 (0-3)
Sample No: 22-2551-032

Date Collected: 04/14/22
Time Collected: 13:12
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/26/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/07/22				
Preparation Date: 04/29/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/14/22

Project ID: IDOT 199-014 WO #5 IL 47 Lakewood

Time Collected: 13:12

Sample ID: 56-06 (0-3)

Date Received: 04/15/22

Sample No: 22-2551-032

Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/07/22		Preparation Date: 04/29/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 56-06 (0-3)
Sample No: 22-2551-032

Date Collected: 04/14/22
Time Collected: 13:12
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/07/22				Preparation Date: 04/29/22
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/09/22				Preparation Date: 05/05/22
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.5	1.0	mg/kg	
Barium	98.3	0.5	mg/kg	
Beryllium	0.8	0.5	mg/kg	
Cadmium	0.5	0.5	mg/kg	
Calcium	21,600	50	mg/kg	
Chromium	29.3	0.5	mg/kg	
Cobalt	13.2	0.5	mg/kg	
Copper	29.1	0.5	mg/kg	
Iron	29,800	5.0	mg/kg	
Lead	16.9	0.5	mg/kg	
Magnesium	17,100	50	mg/kg	
Manganese	618	0.5	mg/kg	
Nickel	37.5	0.5	mg/kg	
Potassium	2,380	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	1,780	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	39.8	1.0	mg/kg	
Zinc	56.8	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 56-06 (0-3)
Sample No: 22-2551-032

Date Collected: 04/14/22
Time Collected: 13:12
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B Analysis Date: 05/06/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D Analysis Date: 05/17/22 11:25				
pH @ 25°C, 1:2	8.18		Units	
TCLP Extraction Method: 1311 Analysis Date: 05/09/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C Analysis Date: 05/24/22				
		Preparation Method 3010A Preparation Date: 05/23/22		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.2	0.1	mg/L	
Lead	0.007	0.005	mg/L	
Manganese	6.2	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A Analysis Date: 05/19/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312 Analysis Date: 05/09/22				
SPLP Metals Extraction	Complete			
Arsenic	0.014	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 56-06 (0-3)
Sample No: 22-2551-032

Date Collected: 04/14/22
Time Collected: 13:12
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/24/22		Preparation Date: 05/23/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.107	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.078	0.005	mg/L	
Iron	93.2	0.1	mg/L	
Lead	0.029	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	0.2	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/19/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)			86	117
5035A/8260B	d8-Toluene (Surr)			90	110
5035A/8260B	Dibromofluoromethane (Surr)			77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	93	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	78	45	112
8270C	2-Fluorophenol (Surr)	%R:	68	41	84
8270C	d14-Terphenyl (Surr)	%R:	102	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	69	35	105
8270C	Phenol-d5 (surr)	%R:	78.5	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/14/22

Project ID: IDOT 199-014 WO #5 IL 47 Lakewood

Time Collected: 11:15

Sample ID: 57-01 (0-4.5)

Date Received: 04/15/22

Sample No: 22-2551-026

Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/21/22				
Total Solids	83.19		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/26/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 57-01 (0-4.5)
Sample No: 22-2551-026

Date Collected: 04/14/22
Time Collected: 11:15
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/26/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/07/22				
Preparation Date: 04/29/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 57-01 (0-4.5)
Sample No: 22-2551-026

Date Collected: 04/14/22
Time Collected: 11:15
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/07/22		Preparation Date: 04/29/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 57-01 (0-4.5)
Sample No: 22-2551-026

Date Collected: 04/14/22
Time Collected: 11:15
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/07/22		Preparation Date: 04/29/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/09/22		Preparation Date: 05/05/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.0	1.0	mg/kg	
Barium	59.2	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	1,490	50	mg/kg	
Chromium	19.1	0.5	mg/kg	
Cobalt	10.9	0.5	mg/kg	
Copper	15.5	0.5	mg/kg	
Iron	19,400	5.0	mg/kg	
Lead	10.8	0.5	mg/kg	
Magnesium	2,880	50	mg/kg	
Manganese	453	0.5	mg/kg	
Nickel	19.0	0.5	mg/kg	
Potassium	1,200	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	1,080	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	29.8	1.0	mg/kg	
Zinc	40.0	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/14/22

Project ID: IDOT 199-014 WO #5 IL 47 Lakewood

Time Collected: 11:15

Sample ID: 57-01 (0-4.5)

Date Received: 04/15/22

Sample No: 22-2551-026

Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 05/06/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 05/17/22 11:25				
pH @ 25°C, 1:2	8.20		Units	
TCLP Extraction Method: 1311				
Analysis Date: 05/06/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 05/20/22				
Preparation Method 3010A				
Preparation Date: 05/18/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	3.4	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 05/19/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 05/06/22				
SPLP Metals Extraction	Complete			
Arsenic	0.054	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 57-01 (0-4.5)
Sample No: 22-2551-026

Date Collected: 04/14/22
Time Collected: 11:15
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/20/22		Preparation Date: 05/19/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	0.008	0.004	mg/L	
Cadmium	0.018	0.005	mg/L	
Chromium	0.265	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.220	0.005	mg/L	
Iron	247	0.1	mg/L	
Lead	0.102	0.005	mg/L	
Manganese	2.0	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	
Zinc	0.5	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/19/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)			86	117
5035A/8260B	d8-Toluene (Surr)			90	110
5035A/8260B	Dibromofluoromethane (Surr)			77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	96.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	89	45	112
8270C	2-Fluorophenol (Surr)	%R:	73.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	109	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	81	35	105
8270C	Phenol-d5 (surr)	%R:	83.5	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/14/22

Project ID: IDOT 199-014 WO #5 IL 47 Lakewood

Time Collected: 11:20

Sample ID: 57-02 (0-4.5)

Date Received: 04/15/22

Sample No: 22-2551-027

Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/21/22				
Total Solids	82.05		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/26/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/14/22

Project ID: IDOT 199-014 WO #5 IL 47 Lakewood

Time Collected: 11:20

Sample ID: 57-02 (0-4.5)

Date Received: 04/15/22

Sample No: 22-2551-027

Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/26/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/07/22				
Preparation Date: 04/29/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/14/22

Project ID: IDOT 199-014 WO #5 IL 47 Lakewood

Time Collected: 11:20

Sample ID: 57-02 (0-4.5)

Date Received: 04/15/22

Sample No: 22-2551-027

Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/07/22		Preparation Date: 04/29/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 57-02 (0-4.5)
Sample No: 22-2551-027

Date Collected: 04/14/22
Time Collected: 11:20
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/07/22		Preparation Date: 04/29/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/09/22		Preparation Date: 05/05/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.0	1.0	mg/kg	
Barium	55.6	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	58,500	50	mg/kg	
Chromium	20.4	0.5	mg/kg	
Cobalt	8.9	0.5	mg/kg	
Copper	26.3	0.5	mg/kg	
Iron	21,500	5.0	mg/kg	
Lead	23.5	0.5	mg/kg	
Magnesium	34,900	50	mg/kg	
Manganese	321	0.5	mg/kg	
Nickel	25.6	0.5	mg/kg	
Potassium	1,930	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	1,790	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	28.7	1.0	mg/kg	
Zinc	54.8	1.0	mg/kg	



Analytical Report

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Sample ID: 57-02 (0-4.5)
Sample No: 22-2551-027

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Time Collected: 11:20
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 05/06/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 05/17/22 11:25				
pH @ 25°C, 1:2	8.51		Units	
TCLP Extraction Method: 1311				
Analysis Date: 05/06/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 05/24/22				
Preparation Method 3010A				
Preparation Date: 05/23/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.2	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 05/19/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 05/06/22				
SPLP Metals Extraction	Complete			
Arsenic	0.063	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 57-02 (0-4.5)
Sample No: 22-2551-027

Date Collected: 04/14/22
Time Collected: 11:20
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/24/22		Preparation Date: 05/23/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	0.010	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.303	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.275	0.005	mg/L	
Iron	292	0.1	mg/L	
Lead	0.166	0.005	mg/L	
Manganese	1.7	0.1	mg/L	
Nickel	0.3	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.7	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/19/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)			86	117
5035A/8260B	d8-Toluene (Surr)			90	110
5035A/8260B	Dibromofluoromethane (Surr)			77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	89	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	80	45	112
8270C	2-Fluorophenol (Surr)	%R:	59	41	84
8270C	d14-Terphenyl (Surr)	%R:	97	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	65	35	105
8270C	Phenol-d5 (surr)	%R:	71	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 57-03 (0-4.5)
Sample No: 22-2551-028

Date Collected: 04/14/22
Time Collected: 11:25
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/21/22				
Total Solids	86.90		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/26/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 57-03 (0-4.5)
Sample No: 22-2551-028

Date Collected: 04/14/22
Time Collected: 11:25
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/26/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/07/22				
Preparation Date: 04/29/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 57-03 (0-4.5)
Sample No: 22-2551-028

Date Collected: 04/14/22
Time Collected: 11:25
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/07/22		Preparation Date: 04/29/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/14/22

Project ID: IDOT 199-014 WO #5 IL 47 Lakewood

Time Collected: 11:25

Sample ID: 57-03 (0-4.5)

Date Received: 04/15/22

Sample No: 22-2551-028

Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/07/22		Preparation Date: 04/29/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/09/22		Preparation Date: 05/05/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.6	1.0	mg/kg	
Barium	38.7	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	17.2	0.5	mg/kg	
Cobalt	7.8	0.5	mg/kg	
Copper	17.1	0.5	mg/kg	
Iron	18,800	5.0	mg/kg	
Lead	9.1	0.5	mg/kg	
Magnesium	39,400	50	mg/kg	
Manganese	355	0.5	mg/kg	
Nickel	21.9	0.5	mg/kg	
Potassium	1,830	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	990	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	23.5	1.0	mg/kg	
Zinc	37.0	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 57-03 (0-4.5)
Sample No: 22-2551-028

Date Collected: 04/14/22
Time Collected: 11:25
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 05/06/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 05/17/22 11:25				
pH @ 25°C, 1:2	8.89		Units	
TCLP Extraction Method: 1311				
Analysis Date: 05/06/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 05/24/22				
			Preparation Method 3010A	
			Preparation Date: 05/23/22	
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	1.0	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.4	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 05/19/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 05/06/22				
SPLP Metals Extraction	Complete			
Arsenic	0.042	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 57-03 (0-4.5)
Sample No: 22-2551-028

Date Collected: 04/14/22
Time Collected: 11:25
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/24/22		Preparation Date: 05/23/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	0.007	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.207	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.158	0.005	mg/L	
Iron	187	0.1	mg/L	
Lead	0.054	0.005	mg/L	
Manganese	0.7	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	
Zinc	0.4	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/19/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)			86	117
5035A/8260B	d8-Toluene (Surr)			90	110
5035A/8260B	Dibromofluoromethane (Surr)			77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	92.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	79	45	112
8270C	2-Fluorophenol (Surr)	%R:	68	41	84
8270C	d14-Terphenyl (Surr)	%R:	101	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	72	35	105
8270C	Phenol-d5 (surr)	%R:	77	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/14/22

Project ID: IDOT 199-014 WO #5 IL 47 Lakewood

Time Collected: 11:30

Sample ID: 57-04 (0-4.5)

Date Received: 04/15/22

Sample No: 22-2551-029

Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/21/22				
Total Solids	77.44		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/26/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/14/22

Project ID: IDOT 199-014 WO #5 IL 47 Lakewood

Time Collected: 11:30

Sample ID: 57-04 (0-4.5)

Date Received: 04/15/22

Sample No: 22-2551-029

Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/26/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/07/22				
Preparation Date: 04/29/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 57-04 (0-4.5)
Sample No: 22-2551-029

Date Collected: 04/14/22
Time Collected: 11:30
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/07/22		Preparation Date: 04/29/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/14/22

Project ID: IDOT 199-014 WO #5 IL 47 Lakewood

Time Collected: 11:30

Sample ID: 57-04 (0-4.5)

Date Received: 04/15/22

Sample No: 22-2551-029

Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/07/22				Preparation Date: 04/29/22
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/09/22				Preparation Date: 05/05/22
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.8	1.0	mg/kg	
Barium	103	0.5	mg/kg	
Beryllium	0.8	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	2,820	50	mg/kg	
Chromium	22.3	0.5	mg/kg	
Cobalt	10.5	0.5	mg/kg	
Copper	17.8	0.5	mg/kg	
Iron	23,300	5.0	mg/kg	
Lead	14.4	0.5	mg/kg	
Magnesium	3,810	50	mg/kg	
Manganese	245	0.5	mg/kg	
Nickel	21.7	0.5	mg/kg	
Potassium	1,460	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	890	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	36.2	1.0	mg/kg	
Zinc	46.0	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 57-04 (0-4.5)
Sample No: 22-2551-029

Date Collected: 04/14/22
Time Collected: 11:30
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 05/06/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 05/17/22 11:25				
pH @ 25°C, 1:2	7.76		Units	
TCLP Extraction Method: 1311				
Analysis Date: 05/06/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 05/24/22				
Preparation Method 3010A				
Preparation Date: 05/23/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	4.6	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 05/19/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 05/06/22				
SPLP Metals Extraction	Complete			
Arsenic	0.023	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 57-04 (0-4.5)
Sample No: 22-2551-029

Date Collected: 04/14/22
Time Collected: 11:30
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/24/22		Preparation Date: 05/23/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	0.006	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.178	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.112	0.005	mg/L	
Iron	148	0.1	mg/L	
Lead	0.050	0.005	mg/L	
Manganese	1.6	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	
Zinc	0.3	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/19/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)			86	117
5035A/8260B	d8-Toluene (Surr)			90	110
5035A/8260B	Dibromofluoromethane (Surr)			77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	88	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	74	45	112
8270C	2-Fluorophenol (Surr)	%R:	57.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	95	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	64	35	105
8270C	Phenol-d5 (surr)	%R:	68	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 57-05 (0-4.5)
Sample No: 22-2551-030

Date Collected: 04/14/22
Time Collected: 11:35
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/21/22				
Total Solids	81.41		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/26/22				
Acetone	208	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 57-05 (0-4.5)
Sample No: 22-2551-030

Date Collected: 04/14/22
Time Collected: 11:35
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/26/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/07/22				
Preparation Date: 04/29/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/14/22

Project ID: IDOT 199-014 WO #5 IL 47 Lakewood

Time Collected: 11:35

Sample ID: 57-05 (0-4.5)

Date Received: 04/15/22

Sample No: 22-2551-030

Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/07/22		Preparation Date: 04/29/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 57-05 (0-4.5)
Sample No: 22-2551-030

Date Collected: 04/14/22
Time Collected: 11:35
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/07/22		Preparation Date: 04/29/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/09/22		Preparation Date: 05/05/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.4	1.0	mg/kg	
Barium	68.8	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	11,300	50	mg/kg	
Chromium	18.8	0.5	mg/kg	
Cobalt	9.6	0.5	mg/kg	
Copper	20.5	0.5	mg/kg	
Iron	20,100	5.0	mg/kg	
Lead	14.2	0.5	mg/kg	
Magnesium	8,040	50	mg/kg	
Manganese	458	0.5	mg/kg	
Nickel	18.6	0.5	mg/kg	
Potassium	1,240	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	1,630	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	31.8	1.0	mg/kg	
Zinc	52.9	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 57-05 (0-4.5)
Sample No: 22-2551-030

Date Collected: 04/14/22
Time Collected: 11:35
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Analysis Date: 05/06/22	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 05/17/22 11:25	Method: 9045D			
pH @ 25°C, 1:2	8.24		Units	
TCLP Extraction Analysis Date: 05/06/22	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 05/24/22	Method: 6010C		Preparation Method 3010A Preparation Date: 05/23/22	
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	4.6	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 Analysis Date: 05/19/22	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Analysis Date: 05/06/22	Method: 1312			
SPLP Metals Extraction	Complete			
Arsenic	0.048	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 57-05 (0-4.5)
Sample No: 22-2551-030

Date Collected: 04/14/22
Time Collected: 11:35
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/24/22		Preparation Date: 05/23/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	0.006	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.184	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.146	0.005	mg/L	
Iron	185	0.1	mg/L	
Lead	0.090	0.005	mg/L	
Manganese	3.4	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	
Zinc	0.5	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/19/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)			86	117
5035A/8260B	d8-Toluene (Surr)			90	110
5035A/8260B	Dibromofluoromethane (Surr)			77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	87.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	71	45	112
8270C	2-Fluorophenol (Surr)	%R:	53.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	98	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	61	35	105
8270C	Phenol-d5 (surr)	%R:	64.5	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/14/22

Project ID: IDOT 199-014 WO #5 IL 47 Lakewood

Time Collected: 11:00

Sample ID: 58-01 (0-5)

Date Received: 04/15/22

Sample No: 22-2551-021

Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/21/22				
Total Solids	80.46		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/26/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/14/22

Project ID: IDOT 199-014 WO #5 IL 47 Lakewood

Time Collected: 11:00

Sample ID: 58-01 (0-5)

Date Received: 04/15/22

Sample No: 22-2551-021

Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/26/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/07/22				
Preparation Date: 04/29/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/14/22

Project ID: IDOT 199-014 WO #5 IL 47 Lakewood

Time Collected: 11:00

Sample ID: 58-01 (0-5)

Date Received: 04/15/22

Sample No: 22-2551-021

Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/07/22		Preparation Date: 04/29/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 58-01 (0-5)
Sample No: 22-2551-021

Date Collected: 04/14/22
Time Collected: 11:00
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/07/22		Preparation Date: 04/29/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/09/22		Preparation Date: 05/05/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	8.6	1.0	mg/kg	
Barium	65.7	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	0.5	0.5	mg/kg	
Calcium	20,400	50	mg/kg	
Chromium	23.5	0.5	mg/kg	
Cobalt	12.2	0.5	mg/kg	
Copper	29.9	0.5	mg/kg	
Iron	28,000	5.0	mg/kg	
Lead	14.1	0.5	mg/kg	
Magnesium	14,800	50	mg/kg	
Manganese	474	0.5	mg/kg	
Nickel	32.7	0.5	mg/kg	
Potassium	1,890	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	2,480	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	34.4	1.0	mg/kg	
Zinc	57.4	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/14/22

Project ID: IDOT 199-014 WO #5 IL 47 Lakewood

Time Collected: 11:00

Sample ID: 58-01 (0-5)

Date Received: 04/15/22

Sample No: 22-2551-021

Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 05/05/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 05/17/22 11:25				
pH @ 25°C, 1:2	8.78		Units	
TCLP Extraction Method: 1311				
Analysis Date: 05/06/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 05/24/22				
Preparation Method 3010A				
Preparation Date: 05/23/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	10.8	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: 05/19/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 05/06/22				
SPLP Metals Extraction	Complete			
Arsenic	0.069	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 58-01 (0-5)
Sample No: 22-2551-021

Date Collected: 04/14/22
Time Collected: 11:00
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/20/22		Preparation Date: 05/19/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	0.007	0.004	mg/L	
Cadmium	0.018	0.005	mg/L	
Chromium	0.232	0.005	mg/L	
Cobalt	0.1	0.1	mg/L	
Copper	0.273	0.005	mg/L	
Iron	244	0.1	mg/L	
Lead	0.113	0.005	mg/L	
Manganese	2.6	0.1	mg/L	
Nickel	0.3	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.6	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/19/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)			86	117
5035A/8260B	d8-Toluene (Surr)			90	110
5035A/8260B	Dibromofluoromethane (Surr)			77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	88.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	76	45	112
8270C	2-Fluorophenol (Surr)	%R:	67	41	84
8270C	d14-Terphenyl (Surr)	%R:	96	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	76	35	105
8270C	Phenol-d5 (surr)	%R:	78.5	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 58-01 (5-10)
Sample No: 22-2551-022

Date Collected: 04/14/22
Time Collected: 11:02
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/21/22				
Total Solids	73.17		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/26/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/14/22

Project ID: IDOT 199-014 WO #5 IL 47 Lakewood

Time Collected: 11:02

Sample ID: 58-01 (5-10)

Date Received: 04/15/22

Sample No: 22-2551-022

Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/26/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/07/22				
Preparation Date: 04/29/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/14/22

Project ID: IDOT 199-014 WO #5 IL 47 Lakewood

Time Collected: 11:02

Sample ID: 58-01 (5-10)

Date Received: 04/15/22

Sample No: 22-2551-022

Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/07/22		Preparation Date: 04/29/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/14/22

Project ID: IDOT 199-014 WO #5 IL 47 Lakewood

Time Collected: 11:02

Sample ID: 58-01 (5-10)

Date Received: 04/15/22

Sample No: 22-2551-022

Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/07/22				Preparation Date: 04/29/22
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/09/22				Preparation Date: 05/05/22
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.3	1.0	mg/kg	
Barium	76.7	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	5,320	50	mg/kg	
Chromium	13.4	0.5	mg/kg	
Cobalt	8.9	0.5	mg/kg	
Copper	24.6	0.5	mg/kg	
Iron	12,900	5.0	mg/kg	
Lead	13.1	0.5	mg/kg	
Magnesium	2,910	50	mg/kg	
Manganese	343	0.5	mg/kg	
Nickel	13.3	0.5	mg/kg	
Potassium	1,050	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	1,200	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	24.8	1.0	mg/kg	
Zinc	52.2	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 58-01 (5-10)
Sample No: 22-2551-022

Date Collected: 04/14/22
Time Collected: 11:02
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 05/05/22				
Mercury	0.07	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 05/17/22 11:25				
pH @ 25°C, 1:2	8.13		Units	
TCLP Extraction Method: 1311				
Analysis Date: 05/06/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C			Preparation Method 3010A	
Analysis Date: 05/20/22 Preparation Date: 05/18/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	8.3	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: 05/19/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 05/06/22				
SPLP Metals Extraction	Complete			
Arsenic	0.021	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 58-01 (5-10)
Sample No: 22-2551-022

Date Collected: 04/14/22
Time Collected: 11:02
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/20/22		Preparation Date: 05/19/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	0.006	0.005	mg/L	
Chromium	0.088	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.080	0.005	mg/L	
Iron	79.0	0.1	mg/L	
Lead	0.054	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	0.2	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/19/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)			86	117
5035A/8260B	d8-Toluene (Surr)			90	110
5035A/8260B	Dibromofluoromethane (Surr)			77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	93.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	81	45	112
8270C	2-Fluorophenol (Surr)	%R:	65.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	100	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	68	35	105
8270C	Phenol-d5 (surr)	%R:	76.5	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/14/22

Project ID: IDOT 199-014 WO #5 IL 47 Lakewood

Time Collected: 11:06

Sample ID: 58-01 (15-30)

Date Received: 04/15/22

Sample No: 22-2551-023

Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/21/22				
Total Solids	88.02		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/26/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/14/22

Project ID: IDOT 199-014 WO #5 IL 47 Lakewood

Time Collected: 11:06

Sample ID: 58-01 (15-30)

Date Received: 04/15/22

Sample No: 22-2551-023

Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/26/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/07/22				
Preparation Date: 04/29/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/14/22

Project ID: IDOT 199-014 WO #5 IL 47 Lakewood

Time Collected: 11:06

Sample ID: 58-01 (15-30)

Date Received: 04/15/22

Sample No: 22-2551-023

Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/07/22		Preparation Date: 04/29/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 58-01 (15-30)
Sample No: 22-2551-023

Date Collected: 04/14/22
Time Collected: 11:06
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/07/22		Preparation Date: 04/29/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/09/22		Preparation Date: 05/05/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	1.6	1.0	mg/kg	
Barium	26.0	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	91,900	50	mg/kg	
Chromium	10.4	0.5	mg/kg	
Cobalt	4.6	0.5	mg/kg	
Copper	12.8	0.5	mg/kg	
Iron	9,970	5.0	mg/kg	
Lead	4.9	0.5	mg/kg	
Magnesium	46,200	50	mg/kg	
Manganese	256	0.5	mg/kg	
Nickel	11.5	0.5	mg/kg	
Potassium	1,410	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	192	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	16.3	1.0	mg/kg	
Zinc	23.8	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 58-01 (15-30)
Sample No: 22-2551-023

Date Collected: 04/14/22
Time Collected: 11:06
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Analysis Date: 05/06/22	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 05/17/22 11:25	Method: 9045D			
pH @ 25°C, 1:2	8.55		Units	
TCLP Extraction Analysis Date: 05/06/22	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 05/20/22	Method: 6010C	Preparation Method 3010A Preparation Date: 05/18/22		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	2.3	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 Analysis Date: 05/19/22	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Analysis Date: 05/06/22	Method: 1312			
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 58-01 (15-30)
Sample No: 22-2551-023

Date Collected: 04/14/22
Time Collected: 11:06
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/20/22		Preparation Date: 05/19/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.007	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	4.8	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/19/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)			86	117
5035A/8260B	d8-Toluene (Surr)			90	110
5035A/8260B	Dibromofluoromethane (Surr)			77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	90.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	78	45	112
8270C	2-Fluorophenol (Surr)	%R:	62.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	95	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	69	35	105
8270C	Phenol-d5 (surr)	%R:	75	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/14/22

Project ID: IDOT 199-014 WO #5 IL 47 Lakewood

Time Collected: 11:08

Sample ID: 58-01 (20-25)

Date Received: 04/15/22

Sample No: 22-2551-024

Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/21/22				
Total Solids	88.47		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/26/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/14/22

Project ID: IDOT 199-014 WO #5 IL 47 Lakewood

Time Collected: 11:08

Sample ID: 58-01 (20-25)

Date Received: 04/15/22

Sample No: 22-2551-024

Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/26/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/07/22				
Preparation Date: 04/29/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 58-01 (20-25)
Sample No: 22-2551-024

Date Collected: 04/14/22
Time Collected: 11:08
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/07/22		Preparation Date: 04/29/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 58-01 (20-25)
Sample No: 22-2551-024

Date Collected: 04/14/22
Time Collected: 11:08
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/07/22		Preparation Date: 04/29/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/09/22		Preparation Date: 05/05/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	2.4	1.0	mg/kg	
Barium	38.2	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	99,200	50	mg/kg	
Chromium	14.4	0.5	mg/kg	
Cobalt	6.5	0.5	mg/kg	
Copper	17.2	0.5	mg/kg	
Iron	14,100	5.0	mg/kg	
Lead	6.1	0.5	mg/kg	
Magnesium	47,800	50	mg/kg	
Manganese	321	0.5	mg/kg	
Nickel	16.6	0.5	mg/kg	
Potassium	2,030	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	185	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	20.1	1.0	mg/kg	
Zinc	30.5	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC. **Date Collected:** 04/14/22
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood **Time Collected:** 11:08
Sample ID: 58-01 (20-25) **Date Received:** 04/15/22
Sample No: 22-2551-024 **Date Reported:** 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Analysis Date: 05/06/22 Mercury	Method: 7471B < 0.05	 0.05	 mg/kg	
pH @ 25°C, 1:2 Analysis Date: 05/17/22 11:25 pH @ 25°C, 1:2	Method: 9045D 8.23		 Units	
TCLP Extraction Analysis Date: 05/06/22 TCLP Extraction	Method: 1311 Complete			
TCLP Metals Method 1311 Analysis Date: 05/20/22	Method: 6010C	Preparation Method 3010A Preparation Date: 05/18/22		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	2.2	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 Analysis Date: 05/19/22 Mercury	Method: 7470A < 0.0005	 0.0005	 mg/L	
SPLP Extraction Analysis Date: 05/06/22 SPLP Metals Extraction	Method: 1312 Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 58-01 (20-25)
Sample No: 22-2551-024

Date Collected: 04/14/22
Time Collected: 11:08
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/20/22		Preparation Date: 05/19/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	0.3	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/19/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)			86	117
5035A/8260B	d8-Toluene (Surr)			90	110
5035A/8260B	Dibromofluoromethane (Surr)			77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	88.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	82	45	112
8270C	2-Fluorophenol (Surr)	%R:	62	41	84
8270C	d14-Terphenyl (Surr)	%R:	95	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	68	35	105
8270C	Phenol-d5 (surr)	%R:	73	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/14/22

Project ID: IDOT 199-014 WO #5 IL 47 Lakewood

Time Collected: 11:04

Sample ID: 58-01 (10-15)

Date Received: 04/15/22

Sample No: 22-2551-025

Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/21/22				
Total Solids	83.88		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/26/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/14/22

Project ID: IDOT 199-014 WO #5 IL 47 Lakewood

Time Collected: 11:04

Sample ID: 58-01 (10-15)

Date Received: 04/15/22

Sample No: 22-2551-025

Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/26/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/07/22				
Preparation Date: 04/29/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/14/22

Project ID: IDOT 199-014 WO #5 IL 47 Lakewood

Time Collected: 11:04

Sample ID: 58-01 (10-15)

Date Received: 04/15/22

Sample No: 22-2551-025

Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/07/22		Preparation Date: 04/29/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 58-01 (10-15)
Sample No: 22-2551-025

Date Collected: 04/14/22
Time Collected: 11:04
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/07/22		Preparation Date: 04/29/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/09/22		Preparation Date: 05/05/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.5	1.0	mg/kg	
Barium	28.0	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	71,800	50	mg/kg	
Chromium	16.0	0.5	mg/kg	
Cobalt	10.9	0.5	mg/kg	
Copper	22.0	0.5	mg/kg	
Iron	24,200	5.0	mg/kg	
Lead	10.5	0.5	mg/kg	
Magnesium	34,300	50	mg/kg	
Manganese	369	0.5	mg/kg	
Nickel	26.4	0.5	mg/kg	
Potassium	2,070	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	322	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	23.2	1.0	mg/kg	
Zinc	41.0	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 58-01 (10-15)
Sample No: 22-2551-025

Date Collected: 04/14/22
Time Collected: 11:04
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 05/06/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 05/17/22 11:25				
pH @ 25°C, 1:2	8.11		Units	
TCLP Extraction Method: 1311				
Analysis Date: 05/06/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 05/20/22				
Preparation Method 3010A				
Preparation Date: 05/18/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	2.8	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	0.014	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 05/19/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 05/06/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 58-01 (10-15)
Sample No: 22-2551-025

Date Collected: 04/14/22
Time Collected: 11:04
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/20/22		Preparation Date: 05/19/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/19/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)			86	117
5035A/8260B	d8-Toluene (Surr)			90	110
5035A/8260B	Dibromofluoromethane (Surr)			77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	92	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	83	45	112
8270C	2-Fluorophenol (Surr)	%R:	65.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	99	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	73	35	105
8270C	Phenol-d5 (surr)	%R:	79	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-01 (0-5)
Sample No: 22-2456-037

Date Collected: 04/12/22
Time Collected: 10:00
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/18/22				
Total Solids	83.33		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-01 (0-5)
Sample No: 22-2456-037

Date Collected: 04/12/22
Time Collected: 10:00
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/28/22				
Preparation Date: 04/26/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-01 (0-5)
Sample No: 22-2456-037

Date Collected: 04/12/22
Time Collected: 10:00
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/28/22		Preparation Date: 04/26/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-01 (0-5)
Sample No: 22-2456-037

Date Collected: 04/12/22
Time Collected: 10:00
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/28/22		Preparation Date: 04/26/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals	Method: 6010C	Preparation Method 3050B		
Analysis Date: 05/02/22		Preparation Date: 04/30/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.9	1.0	mg/kg	
Barium	67.4	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	1,900	50	mg/kg	
Chromium	28.5	0.5	mg/kg	
Cobalt	10.0	0.5	mg/kg	
Copper	17.5	0.5	mg/kg	
Iron	28,800	5.0	mg/kg	
Lead	13.0	0.5	mg/kg	
Magnesium	3,660	50	mg/kg	
Manganese	383	0.5	mg/kg	
Nickel	21.5	0.5	mg/kg	
Potassium	1,230	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	2,080	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	59.6	1.0	mg/kg	
Zinc	45.3	1.0	mg/kg	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	04/12/22
Project ID:	PO# 81.0220714.06, IDOT 199-014 WO #5	Time Collected:	10:00
Sample ID:	3919-COV-59-01 (0-5)	Date Received:	04/13/22
Sample No:	22-2456-037	Date Reported:	05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Analysis Date: 05/02/22	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 05/05/22 9:40	Method: 9045D			
pH @ 25°C, 1:2	8.38		Units	
TCLP Extraction Analysis Date: 05/04/22	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 05/13/22	Method: 6010C		Preparation Method 3010A Preparation Date: 05/12/22	
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.8	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 Analysis Date: 05/10/22	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Analysis Date: 05/04/22	Method: 1312			
SPLP Metals Extraction	Complete			
Arsenic	0.042	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-01 (0-5)
Sample No: 22-2456-037

Date Collected: 04/12/22
Time Collected: 10:00
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/16/22		Preparation Date: 05/11/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	0.005	0.004	mg/L	
Cadmium	0.005	0.005	mg/L	
Chromium	0.201	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.138	0.005	mg/L	
Iron	191	0.1	mg/L	
Lead	0.052	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	0.3	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/11/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98.1	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	110	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	76	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	66	45	112
8270C	2-Fluorophenol (Surr)	%R:	58.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	95	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	74	35	105
8270C	Phenol-d5 (surr)	%R:	69	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-01 (5-10)
Sample No: 22-2456-038

Date Collected: 04/12/22
Time Collected: 10:05
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/18/22				
Total Solids	84.66		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-01 (5-10)
Sample No: 22-2456-038

Date Collected: 04/12/22
Time Collected: 10:05
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/28/22				
Preparation Date: 04/26/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-01 (5-10)
Sample No: 22-2456-038

Date Collected: 04/12/22
Time Collected: 10:05
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/28/22		Preparation Date: 04/26/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-01 (5-10)
Sample No: 22-2456-038

Date Collected: 04/12/22
Time Collected: 10:05
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/28/22		Preparation Date: 04/26/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/02/22		Preparation Date: 04/30/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.5	1.0	mg/kg	
Barium	21.5	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	80,800	50	mg/kg	
Chromium	14.7	0.5	mg/kg	
Cobalt	9.6	0.5	mg/kg	
Copper	22.6	0.5	mg/kg	
Iron	18,100	5.0	mg/kg	
Lead	11.7	0.5	mg/kg	
Magnesium	44,300	50	mg/kg	
Manganese	416	0.5	mg/kg	
Nickel	24.3	0.5	mg/kg	
Potassium	1,740	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	1,340	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	19.0	1.0	mg/kg	
Zinc	45.8	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.	Date Collected: 04/12/22
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5	Time Collected: 10:05
Sample ID: 3919-COV-59-01 (5-10)	Date Received: 04/13/22
Sample No: 22-2456-038	Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 05/02/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 05/05/22 9:40				
pH @ 25°C, 1:2	8.83		Units	
TCLP Extraction Method: 1311				
Analysis Date: 05/04/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 05/13/22				
Preparation Method 3010A Preparation Date: 05/12/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.5	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: 05/10/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 05/04/22				
SPLP Metals Extraction	Complete			
Arsenic	0.023	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-01 (5-10)
Sample No: 22-2456-038

Date Collected: 04/12/22
Time Collected: 10:05
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/16/22		Preparation Date: 05/11/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.075	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.094	0.005	mg/L	
Iron	79.7	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	
Zinc	0.2	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/11/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	96.5	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	97.9	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	107.2	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	83.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	69	45	112
8270C	2-Fluorophenol (Surr)	%R:	74.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	91	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	84	35	105
8270C	Phenol-d5 (surr)	%R:	82.5	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-01 (10-12)
Sample No: 22-2456-039

Date Collected: 04/12/22
Time Collected: 10:10
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/18/22				
Total Solids	86.06		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-01 (10-12)
Sample No: 22-2456-039

Date Collected: 04/12/22
Time Collected: 10:10
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/28/22				
Preparation Date: 04/26/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-01 (10-12)
Sample No: 22-2456-039

Date Collected: 04/12/22
Time Collected: 10:10
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/28/22		Preparation Date: 04/26/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-01 (10-12)
Sample No: 22-2456-039

Date Collected: 04/12/22
Time Collected: 10:10
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/28/22		Preparation Date: 04/26/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/02/22		Preparation Date: 04/30/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	8.0	1.0	mg/kg	
Barium	19.9	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	75,200	50	mg/kg	
Chromium	11.6	0.5	mg/kg	
Cobalt	6.5	0.5	mg/kg	
Copper	21.7	0.5	mg/kg	
Iron	16,300	5.0	mg/kg	
Lead	12.1	0.5	mg/kg	
Magnesium	41,400	50	mg/kg	
Manganese	285	0.5	mg/kg	
Nickel	18.1	0.5	mg/kg	
Potassium	1,410	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	222	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	16.6	1.0	mg/kg	
Zinc	49.4	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/12/22

Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5

Time Collected: 10:10

Sample ID: 3919-COV-59-01 (10-12)

Date Received: 04/13/22

Sample No: 22-2456-039

Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Analysis Date: 05/03/22 Mercury	Method: 7471B < 0.05	 0.05	 mg/kg	
pH @ 25°C, 1:2 Analysis Date: 05/05/22 9:40 pH @ 25°C, 1:2	Method: 9045D 8.62		 Units	
TCLP Extraction Analysis Date: 05/04/22 TCLP Extraction	Method: 1311 Complete			
TCLP Metals Method 1311 Analysis Date: 05/13/22	Method: 6010C	Preparation Method 3010A Preparation Date: 05/12/22		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.9	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Analysis Date: 05/10/22 Mercury	Method: 7470A < 0.0005	 0.0005	 mg/L	
SPLP Extraction Analysis Date: 05/04/22 SPLP Metals Extraction	Method: 1312 Complete			
Arsenic	0.012	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-01 (10-12)
Sample No: 22-2456-039

Date Collected: 04/12/22
Time Collected: 10:10
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/16/22		Preparation Date: 05/11/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.034	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.041	0.005	mg/L	
Iron	35.0	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	
Zinc	0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/11/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	92.3	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.3	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	107.4	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	84	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	68	45	112
8270C	2-Fluorophenol (Surr)	%R:	63.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	94	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	74	35	105
8270C	Phenol-d5 (surr)	%R:	70.5	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-02 (0-5)
Sample No: 22-2456-040

Date Collected: 04/12/22
Time Collected: 10:15
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/18/22				
Total Solids	86.99		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-02 (0-5)
Sample No: 22-2456-040

Date Collected: 04/12/22
Time Collected: 10:15
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/02/22				
Preparation Date: 04/26/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-02 (0-5)
Sample No: 22-2456-040

Date Collected: 04/12/22
Time Collected: 10:15
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/02/22		Preparation Date: 04/26/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-02 (0-5)
Sample No: 22-2456-040

Date Collected: 04/12/22
Time Collected: 10:15
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/02/22		Preparation Date: 04/26/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/02/22		Preparation Date: 04/30/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	9.8	1.0	mg/kg	
Barium	31.4	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	76,200	50	mg/kg	
Chromium	15.3	0.5	mg/kg	
Cobalt	14.0	0.5	mg/kg	
Copper	30.5	0.5	mg/kg	
Iron	27,300	5.0	mg/kg	
Lead	15.4	0.5	mg/kg	
Magnesium	43,400	50	mg/kg	
Manganese	511	0.5	mg/kg	
Nickel	30.3	0.5	mg/kg	
Potassium	1,790	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	197	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	24.5	1.0	mg/kg	
Zinc	63.4	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-02 (0-5)
Sample No: 22-2456-040

Date Collected: 04/12/22
Time Collected: 10:15
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Analysis Date: 05/03/22	Method: 7471B			
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 05/05/22 9:40	Method: 9045D			
pH @ 25°C, 1:2	8.95		Units	
TCLP Extraction Analysis Date: 05/04/22	Method: 1311			
TCLP Extraction	Complete			
TCLP Metals Method 1311 Analysis Date: 05/13/22	Method: 6010C		Preparation Method 3010A Preparation Date: 05/12/22	
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.3	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 Analysis Date: 05/10/22	Method: 7470A			
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Analysis Date: 05/04/22	Method: 1312			
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-02 (0-5)
Sample No: 22-2456-040

Date Collected: 04/12/22
Time Collected: 10:15
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/16/22		Preparation Date: 05/11/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	4.4	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/11/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	94.7	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.4	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	109.6	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	79.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	79	45	112
8270C	2-Fluorophenol (Surr)	%R:	64.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	90	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	77	35	105
8270C	Phenol-d5 (surr)	%R:	72	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-02 (5-10)
Sample No: 22-2456-041

Date Collected: 04/12/22
Time Collected: 10:20
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/18/22				
Total Solids	76.26		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-02 (5-10)
Sample No: 22-2456-041

Date Collected: 04/12/22
Time Collected: 10:20
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/02/22				
Preparation Date: 04/26/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-02 (5-10)
Sample No: 22-2456-041

Date Collected: 04/12/22
Time Collected: 10:20
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/02/22		Preparation Date: 04/26/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-02 (5-10)
Sample No: 22-2456-041

Date Collected: 04/12/22
Time Collected: 10:20
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/02/22		Preparation Date: 04/26/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/02/22		Preparation Date: 04/30/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.4	1.0	mg/kg	
Barium	86.6	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	5,410	50	mg/kg	
Chromium	17.8	0.5	mg/kg	
Cobalt	8.0	0.5	mg/kg	
Copper	17.7	0.5	mg/kg	
Iron	17,300	5.0	mg/kg	
Lead	12.3	0.5	mg/kg	
Magnesium	3,650	50	mg/kg	
Manganese	520	0.5	mg/kg	
Nickel	18.5	0.5	mg/kg	
Potassium	1,170	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	807	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	27.6	1.0	mg/kg	
Zinc	47.7	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-02 (5-10)
Sample No: 22-2456-041

Date Collected: 04/12/22
Time Collected: 10:20
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 05/03/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 05/05/22 9:40				
pH @ 25°C, 1:2	8.00		Units	
TCLP Extraction Method: 1311				
Analysis Date: 05/04/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 05/13/22				
Preparation Method 3010A				
Preparation Date: 05/12/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.5	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	5.8	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: 05/11/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 05/04/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-02 (5-10)
Sample No: 22-2456-041

Date Collected: 04/12/22
Time Collected: 10:20
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/16/22		Preparation Date: 05/11/22		
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	0.020	0.005	mg/L	
Iron	25.3	0.1	mg/L	
Lead	0.013	0.005	mg/L	
Manganese	0.2	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/11/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	96.6	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.5	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	107	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	86	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	80	45	112
8270C	2-Fluorophenol (Surr)	%R:	67	41	84
8270C	d14-Terphenyl (Surr)	%R:	97	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	73	35	105
8270C	Phenol-d5 (surr)	%R:	76	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-02 (10-12)
Sample No: 22-2456-042

Date Collected: 04/12/22
Time Collected: 10:25
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/18/22				
Total Solids	84.00		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-02 (10-12)
Sample No: 22-2456-042

Date Collected: 04/12/22
Time Collected: 10:25
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/02/22				
Preparation Date: 04/26/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-02 (10-12)
Sample No: 22-2456-042

Date Collected: 04/12/22
Time Collected: 10:25
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/02/22		Preparation Date: 04/26/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-02 (10-12)
Sample No: 22-2456-042

Date Collected: 04/12/22
Time Collected: 10:25
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/02/22		Preparation Date: 04/26/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals	Method: 6010C	Preparation Method 3050B		
Analysis Date: 05/02/22		Preparation Date: 04/30/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.5	1.0	mg/kg	
Barium	44.7	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	80,200	50	mg/kg	
Chromium	17.0	0.5	mg/kg	
Cobalt	9.1	0.5	mg/kg	
Copper	20.7	0.5	mg/kg	
Iron	18,500	5.0	mg/kg	
Lead	10.3	0.5	mg/kg	
Magnesium	40,400	50	mg/kg	
Manganese	440	0.5	mg/kg	
Nickel	24.4	0.5	mg/kg	
Potassium	1,940	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	1,970	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	22.4	1.0	mg/kg	
Zinc	44.4	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-02 (10-12)
Sample No: 22-2456-042

Date Collected: 04/12/22
Time Collected: 10:25
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 05/03/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 05/05/22 9:40				
pH @ 25°C, 1:2	8.56		Units	
TCLP Extraction Method: 1311				
Analysis Date: 05/04/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 05/16/22				
Preparation Method 3010A Preparation Date: 05/12/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.6	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	6.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 05/11/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 05/04/22				
SPLP Metals Extraction	Complete			
Arsenic	0.034	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-02 (10-12)
Sample No: 22-2456-042

Date Collected: 04/12/22
Time Collected: 10:25
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/16/22		Preparation Date: 05/11/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	0.005	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.126	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.151	0.005	mg/L	
Iron	126	0.1	mg/L	
Lead	0.052	0.005	mg/L	
Manganese	1.1	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	
Zinc	0.3	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/12/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	96.7	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.9	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	104.4	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	90	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	83	45	112
8270C	2-Fluorophenol (Surr)	%R:	68.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	102	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	81	35	105
8270C	Phenol-d5 (surr)	%R:	77	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-03 (0-5)
Sample No: 22-2456-043

Date Collected: 04/12/22
Time Collected: 10:30
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/18/22				
Total Solids	83.68		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-03 (0-5)
Sample No: 22-2456-043

Date Collected: 04/12/22
Time Collected: 10:30
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/02/22				
Preparation Date: 04/26/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-03 (0-5)
Sample No: 22-2456-043

Date Collected: 04/12/22
Time Collected: 10:30
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/02/22		Preparation Date: 04/26/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-03 (0-5)
Sample No: 22-2456-043

Date Collected: 04/12/22
Time Collected: 10:30
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/02/22		Preparation Date: 04/26/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/02/22		Preparation Date: 04/30/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.6	1.0	mg/kg	
Barium	74.3	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	9,820	50	mg/kg	
Chromium	19.9	0.5	mg/kg	
Cobalt	11.0	0.5	mg/kg	
Copper	18.3	0.5	mg/kg	
Iron	19,100	5.0	mg/kg	
Lead	17.7	0.5	mg/kg	
Magnesium	7,220	50	mg/kg	
Manganese	576	0.5	mg/kg	
Nickel	22.6	0.5	mg/kg	
Potassium	1,380	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	1,210	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	29.9	1.0	mg/kg	
Zinc	51.0	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-03 (0-5)
Sample No: 22-2456-043

Date Collected: 04/12/22
Time Collected: 10:30
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 05/03/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 05/05/22 9:40				
pH @ 25°C, 1:2	8.06		Units	
TCLP Extraction Method: 1311				
Analysis Date: 05/04/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 05/16/22				
Preparation Method 3010A				
Preparation Date: 05/12/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	2.4	0.1	mg/L	
Lead	0.013	0.005	mg/L	
Manganese	48.7	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	0.032	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 05/11/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 05/04/22				
SPLP Metals Extraction	Complete			
Arsenic	0.013	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-03 (0-5)
Sample No: 22-2456-043

Date Collected: 04/12/22
Time Collected: 10:30
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/16/22		Preparation Date: 05/11/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.056	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.050	0.005	mg/L	
Iron	57.8	0.1	mg/L	
Lead	0.030	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/12/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	95.6	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.3	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	107	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	86	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	82	45	112
8270C	2-Fluorophenol (Surr)	%R:	65.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	101	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	74	35	105
8270C	Phenol-d5 (surr)	%R:	74.5	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/12/22

Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5

Time Collected: 10:35

Sample ID: 3919-COV-59-03 (5-10)

Date Received: 04/13/22

Sample No: 22-2456-044

Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/18/22				
Total Solids	86.87		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-03 (5-10)
Sample No: 22-2456-044

Date Collected: 04/12/22
Time Collected: 10:35
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/02/22				
Preparation Date: 04/26/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-03 (5-10)
Sample No: 22-2456-044

Date Collected: 04/12/22
Time Collected: 10:35
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/02/22		Preparation Date: 04/26/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-03 (5-10)
Sample No: 22-2456-044

Date Collected: 04/12/22
Time Collected: 10:35
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/02/22		Preparation Date: 04/26/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals	Method: 6010C	Preparation Method 3050B		
Analysis Date: 05/02/22		Preparation Date: 04/30/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.0	1.0	mg/kg	
Barium	14.9	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	69,000	50	mg/kg	
Chromium	6.0	0.5	mg/kg	
Cobalt	3.2	0.5	mg/kg	
Copper	7.5	0.5	mg/kg	
Iron	8,090	5.0	mg/kg	
Lead	3.5	0.5	mg/kg	
Magnesium	33,600	50	mg/kg	
Manganese	204	0.5	mg/kg	
Nickel	8.1	0.5	mg/kg	
Potassium	610	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	217	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	10.1	1.0	mg/kg	
Zinc	21.2	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-03 (5-10)
Sample No: 22-2456-044

Date Collected: 04/12/22
Time Collected: 10:35
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 05/03/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 05/05/22 9:40				
pH @ 25°C, 1:2	8.98		Units	
TCLP Extraction Method: 1311				
Analysis Date: 05/04/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 05/16/22				
Preparation Method 3010A				
Preparation Date: 05/12/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.8	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: 05/11/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 05/04/22				
SPLP Metals Extraction	Complete			
Arsenic	0.034	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-03 (5-10)
Sample No: 22-2456-044

Date Collected: 04/12/22
Time Collected: 10:35
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/16/22		Preparation Date: 05/11/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.049	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.055	0.005	mg/L	
Iron	59.6	0.1	mg/L	
Lead	0.026	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	0.2	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/12/22			
Mercury	< 0.0005	0.0005	mg/L

Method	Analyte	QC Result	%R Limits	
			Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 97.8	86	117
5035A/8260B	d8-Toluene (Surr)	%R: 99.1	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 114.8	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R: 90	59	131
8270C	2-Fluorobiphenyl (Surr)	%R: 86	45	112
8270C	2-Fluorophenol (Surr)	%R: 76	41	84
8270C	d14-Terphenyl (Surr)	%R: 103	56	120
8270C	d5-Nitrobenzene (Surr)	%R: 86	35	105
8270C	Phenol-d5 (surr)	%R: 84	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/12/22

Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5

Time Collected: 10:40

Sample ID: 3919-COV-59-03 (10-12)

Date Received: 04/13/22

Sample No: 22-2456-045

Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/18/22				
Total Solids	87.57		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-03 (10-12)
Sample No: 22-2456-045

Date Collected: 04/12/22
Time Collected: 10:40
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/02/22				
Preparation Date: 04/26/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-03 (10-12)
Sample No: 22-2456-045

Date Collected: 04/12/22
Time Collected: 10:40
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/02/22		Preparation Date: 04/26/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-03 (10-12)
Sample No: 22-2456-045

Date Collected: 04/12/22
Time Collected: 10:40
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/02/22		Preparation Date: 04/26/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals	Method: 6010C	Preparation Method 3050B		
Analysis Date: 05/03/22		Preparation Date: 04/30/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.3	1.0	mg/kg	
Barium	33.7	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	74,000	50	mg/kg	
Chromium	16.5	0.5	mg/kg	
Cobalt	8.5	0.5	mg/kg	
Copper	21.0	0.5	mg/kg	
Iron	18,600	5.0	mg/kg	
Lead	9.5	0.5	mg/kg	
Magnesium	39,200	50	mg/kg	
Manganese	387	0.5	mg/kg	
Nickel	23.3	0.5	mg/kg	
Potassium	1,780	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	648	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	20.0	1.0	mg/kg	
Zinc	46.2	1.0	mg/kg	



Analytical Report

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Sample No: 22-2456-045

Date Collected: 04/12/22
Time Collected: 10:40
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 05/03/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 05/05/22 9:40				
pH @ 25°C, 1:2	8.91		Units	
TCLP Extraction Method: 1311				
Analysis Date: 05/04/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 05/16/22				
Preparation Method 3010A				
Preparation Date: 05/12/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.3	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 05/11/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 05/04/22				
SPLP Metals Extraction	Complete			
Arsenic	0.034	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-03 (10-12)
Sample No: 22-2456-045

Date Collected: 04/12/22
Time Collected: 10:40
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/16/22		Preparation Date: 05/11/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.091	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.104	0.005	mg/L	
Iron	98.8	0.1	mg/L	
Lead	0.038	0.005	mg/L	
Manganese	0.7	0.1	mg/L	
Nickel	0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.3	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/12/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	102.2	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.8	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	113.3	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	86.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	78	45	112
8270C	2-Fluorophenol (Surr)	%R:	71.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	100	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	79	35	105
8270C	Phenol-d5 (surr)	%R:	80.5	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-04 (0-5)
Sample No: 22-2456-046

Date Collected: 04/12/22
Time Collected: 10:45
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/18/22				
Total Solids	85.52		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-04 (0-5)
Sample No: 22-2456-046

Date Collected: 04/12/22
Time Collected: 10:45
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/02/22				
Preparation Date: 04/26/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-04 (0-5)
Sample No: 22-2456-046

Date Collected: 04/12/22
Time Collected: 10:45
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/02/22		Preparation Date: 04/26/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-04 (0-5)
Sample No: 22-2456-046

Date Collected: 04/12/22
Time Collected: 10:45
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/02/22		Preparation Date: 04/26/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals	Method: 6010C	Preparation Method 3050B		
Analysis Date: 05/03/22		Preparation Date: 04/30/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.0	1.0	mg/kg	
Barium	38.3	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	80,100	50	mg/kg	
Chromium	16.0	0.5	mg/kg	
Cobalt	8.0	0.5	mg/kg	
Copper	21.8	0.5	mg/kg	
Iron	19,100	5.0	mg/kg	
Lead	9.8	0.5	mg/kg	
Magnesium	33,700	50	mg/kg	
Manganese	312	0.5	mg/kg	
Nickel	22.2	0.5	mg/kg	
Potassium	1,540	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	592	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	20.8	1.0	mg/kg	
Zinc	43.3	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-04 (0-5)
Sample No: 22-2456-046

Date Collected: 04/12/22
Time Collected: 10:45
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/16/22		Preparation Date: 05/11/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.063	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.064	0.005	mg/L	
Iron	63.4	0.1	mg/L	
Lead	0.026	0.005	mg/L	
Manganese	0.3	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.2	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/12/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	101.3	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.7	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	109.9	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	86.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	81	45	112
8270C	2-Fluorophenol (Surr)	%R:	68.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	103	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	80	35	105
8270C	Phenol-d5 (surr)	%R:	76	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-04 (5-10)
Sample No: 22-2456-047

Date Collected: 04/12/22
Time Collected: 10:50
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/18/22				
Total Solids	83.80		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-04 (5-10)
Sample No: 22-2456-047

Date Collected: 04/12/22
Time Collected: 10:50
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/02/22				
Preparation Date: 04/26/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-04 (5-10)
Sample No: 22-2456-047

Date Collected: 04/12/22
Time Collected: 10:50
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/02/22		Preparation Date: 04/26/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-04 (5-10)
Sample No: 22-2456-047

Date Collected: 04/12/22
Time Collected: 10:50
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/02/22		Preparation Date: 04/26/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/03/22		Preparation Date: 04/30/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	1.2	1.0	mg/kg	
Barium	29.0	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	93,300	50	mg/kg	
Chromium	14.2	0.5	mg/kg	
Cobalt	6.3	0.5	mg/kg	
Copper	17.9	0.5	mg/kg	
Iron	14,900	5.0	mg/kg	
Lead	7.4	0.5	mg/kg	
Magnesium	46,000	50	mg/kg	
Manganese	337	0.5	mg/kg	
Nickel	17.0	0.5	mg/kg	
Potassium	1,820	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	145	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	20.6	1.0	mg/kg	
Zinc	34.1	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-04 (5-10)
Sample No: 22-2456-047

Date Collected: 04/12/22
Time Collected: 10:50
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 05/03/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 05/05/22 9:40				
pH @ 25°C, 1:2	8.51		Units	
TCLP Extraction Method: 1311				
Analysis Date: 05/04/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 05/16/22 Preparation Date: 05/12/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.6	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 05/11/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 05/04/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-04 (5-10)
Sample No: 22-2456-047

Date Collected: 04/12/22
Time Collected: 10:50
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/18/22		Preparation Date: 05/12/22		
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	9.3	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/12/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	95.5	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.8	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	105.9	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	86.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	72	45	112
8270C	2-Fluorophenol (Surr)	%R:	71.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	95	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	80	35	105
8270C	Phenol-d5 (surr)	%R:	79.5	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-04 (10-12)
Sample No: 22-2456-048

Date Collected: 04/12/22
Time Collected: 10:55
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/18/22				
Total Solids	79.57		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-04 (10-12)
Sample No: 22-2456-048

Date Collected: 04/12/22
Time Collected: 10:55
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/02/22				
Preparation Date: 04/26/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-04 (10-12)
Sample No: 22-2456-048

Date Collected: 04/12/22
Time Collected: 10:55
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/02/22		Preparation Date: 04/26/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-04 (10-12)
Sample No: 22-2456-048

Date Collected: 04/12/22
Time Collected: 10:55
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/02/22		Preparation Date: 04/26/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals	Method: 6010C	Preparation Method 3050B		
Analysis Date: 05/03/22		Preparation Date: 04/30/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	1.7	1.0	mg/kg	
Barium	55.2	0.5	mg/kg	
Beryllium	0.8	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	85,900	50	mg/kg	
Chromium	21.8	0.5	mg/kg	
Cobalt	9.4	0.5	mg/kg	
Copper	22.0	0.5	mg/kg	
Iron	19,100	5.0	mg/kg	
Lead	8.8	0.5	mg/kg	
Magnesium	40,300	50	mg/kg	
Manganese	395	0.5	mg/kg	
Nickel	24.5	0.5	mg/kg	
Potassium	2,640	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	182	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	26.5	1.0	mg/kg	
Zinc	41.0	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-04 (10-12)
Sample No: 22-2456-048

Date Collected: 04/12/22
Time Collected: 10:55
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 05/03/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 05/05/22 9:40				
pH @ 25°C, 1:2	8.08		Units	
TCLP Extraction Method: 1311				
Analysis Date: 05/04/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 05/16/22				
Preparation Method 3010A				
Preparation Date: 05/12/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	2.0	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: 05/11/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 05/04/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-04 (10-12)
Sample No: 22-2456-048

Date Collected: 04/12/22
Time Collected: 10:55
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/18/22		Preparation Date: 05/12/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.006	0.005	mg/L	
Iron	1.9	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/12/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary: Surrogate Recovery				%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	96.3	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	97.8	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	106	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	69	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	64	45	112
8270C	2-Fluorophenol (Surr)	%R:	58.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	78	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	63	35	105
8270C	Phenol-d5 (surr)	%R:	65.5	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-06 (0-5)
Sample No: 22-2456-052

Date Collected: 04/12/22
Time Collected: 11:30
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/20/22				
Total Solids	76		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-06 (0-5)
Sample No: 22-2456-052

Date Collected: 04/12/22
Time Collected: 11:30
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/03/22				
Preparation Date: 04/26/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-06 (0-5)
Sample No: 22-2456-052

Date Collected: 04/12/22
Time Collected: 11:30
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/03/22		Preparation Date: 04/26/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-06 (0-5)
Sample No: 22-2456-052

Date Collected: 04/12/22
Time Collected: 11:30
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/03/22				Preparation Date: 04/26/22
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/03/22				Preparation Date: 04/30/22
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.1	1.0	mg/kg	
Barium	102	0.5	mg/kg	
Beryllium	0.9	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	4,420	50	mg/kg	
Chromium	19.8	0.5	mg/kg	
Cobalt	13.0	0.5	mg/kg	
Copper	17.2	0.5	mg/kg	
Iron	22,500	5.0	mg/kg	
Lead	17.1	0.5	mg/kg	
Magnesium	3,240	50	mg/kg	
Manganese	939	0.5	mg/kg	
Nickel	21.2	0.5	mg/kg	
Potassium	1,680	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	1,610	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	33.1	1.0	mg/kg	
Zinc	47.2	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-06 (0-5)
Sample No: 22-2456-052

Date Collected: 04/12/22
Time Collected: 11:30
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B Analysis Date: 05/03/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D Analysis Date: 05/10/22 9:45				
pH @ 25°C, 1:2	8.40		Units	
TCLP Extraction Method: 1311 Analysis Date: 05/05/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C Analysis Date: 05/16/22				
Preparation Method 3010A Preparation Date: 05/12/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.7	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: 05/11/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312 Analysis Date: 05/05/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-06 (0-5)
Sample No: 22-2456-052

Date Collected: 04/12/22
Time Collected: 11:30
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/18/22		Preparation Date: 05/12/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.049	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.028	0.005	mg/L	
Iron	39.8	0.1	mg/L	
Lead	0.010	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/12/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	97.2	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.5	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	106.3	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	80.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	74	45	112
8270C	2-Fluorophenol (Surr)	%R:	57	41	84
8270C	d14-Terphenyl (Surr)	%R:	95	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	74	35	105
8270C	Phenol-d5 (surr)	%R:	69	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-06 (5-10)
Sample No: 22-2456-053

Date Collected: 04/12/22
Time Collected: 11:35
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/20/22				
Total Solids	83.38		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/22/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-06 (5-10)
Sample No: 22-2456-053

Date Collected: 04/12/22
Time Collected: 11:35
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/22/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/03/22				
Preparation Date: 04/26/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-06 (5-10)
Sample No: 22-2456-053

Date Collected: 04/12/22
Time Collected: 11:35
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/03/22		Preparation Date: 04/26/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-06 (5-10)
Sample No: 22-2456-053

Date Collected: 04/12/22
Time Collected: 11:35
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/03/22		Preparation Date: 04/26/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals	Method: 6010C	Preparation Method 3050B		
Analysis Date: 05/03/22		Preparation Date: 04/30/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.3	1.0	mg/kg	
Barium	40.7	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	28,800	50	mg/kg	
Chromium	18.9	0.5	mg/kg	
Cobalt	10.9	0.5	mg/kg	
Copper	23.7	0.5	mg/kg	
Iron	21,700	5.0	mg/kg	
Lead	11.3	0.5	mg/kg	
Magnesium	20,300	50	mg/kg	
Manganese	564	0.5	mg/kg	
Nickel	28.2	0.5	mg/kg	
Potassium	1,830	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	568	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	29.4	1.0	mg/kg	
Zinc	40.8	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/12/22

Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5

Time Collected: 11:35

Sample ID: 3919-COV-59-06 (5-10)

Date Received: 04/13/22

Sample No: 22-2456-053

Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 05/03/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 05/10/22 9:45				
pH @ 25°C, 1:2	8.04		Units	
TCLP Extraction Method: 1311				
Analysis Date: 05/05/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 05/16/22				
Preparation Method 3010A Preparation Date: 05/12/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.8	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.4	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 05/11/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 05/05/22				
SPLP Metals Extraction	Complete			
Arsenic	0.017	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-06 (5-10)
Sample No: 22-2456-053

Date Collected: 04/12/22
Time Collected: 11:35
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/18/22		Preparation Date: 05/12/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.098	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.085	0.005	mg/L	
Iron	82.9	0.1	mg/L	
Lead	0.026	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	
Zinc	0.2	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/12/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	101.2	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	100.9	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	111.1	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	82.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	71	45	112
8270C	2-Fluorophenol (Surr)	%R:	66	41	84
8270C	d14-Terphenyl (Surr)	%R:	94	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	75	35	105
8270C	Phenol-d5 (surr)	%R:	72.5	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-06 (10-12)
Sample No: 22-2456-054

Date Collected: 04/12/22
Time Collected: 11:40
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/20/22				
Total Solids	86.55		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/22/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-06 (10-12)
Sample No: 22-2456-054

Date Collected: 04/12/22
Time Collected: 11:40
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/22/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/03/22				
Preparation Date: 04/26/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-06 (10-12)
Sample No: 22-2456-054

Date Collected: 04/12/22
Time Collected: 11:40
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/03/22		Preparation Date: 04/26/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-06 (10-12)
Sample No: 22-2456-054

Date Collected: 04/12/22
Time Collected: 11:40
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/03/22		Preparation Date: 04/26/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals	Method: 6010C	Preparation Method 3050B		
Analysis Date: 05/03/22		Preparation Date: 04/30/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.5	1.0	mg/kg	
Barium	25.5	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	80,000	50	mg/kg	
Chromium	15.2	0.5	mg/kg	
Cobalt	9.3	0.5	mg/kg	
Copper	22.4	0.5	mg/kg	
Iron	18,100	5.0	mg/kg	
Lead	9.8	0.5	mg/kg	
Magnesium	40,900	50	mg/kg	
Manganese	339	0.5	mg/kg	
Nickel	24.9	0.5	mg/kg	
Potassium	2,010	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	442	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	19.1	1.0	mg/kg	
Zinc	43.4	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-06 (10-12)
Sample No: 22-2456-054

Date Collected: 04/12/22
Time Collected: 11:40
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 05/03/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 05/10/22 9:45				
pH @ 25°C, 1:2	8.97		Units	
TCLP Extraction Method: 1311				
Analysis Date: 05/05/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 05/16/22				
Preparation Method 3010A Preparation Date: 05/12/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.0	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 05/11/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 05/05/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-06 (10-12)
Sample No: 22-2456-054

Date Collected: 04/12/22
Time Collected: 11:40
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/18/22		Preparation Date: 05/12/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.029	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.030	0.005	mg/L	
Iron	27.9	0.1	mg/L	
Lead	0.012	0.005	mg/L	
Manganese	0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/12/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	97.7	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.6	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	108.9	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	83.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	72	45	112
8270C	2-Fluorophenol (Surr)	%R:	63.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	91	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	72	35	105
8270C	Phenol-d5 (surr)	%R:	71.5	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: Dup-04
Sample No: 22-2001-059

Date Collected: 03/29/22
Time Collected: 9:04
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 03/31/22				
Total Solids	85.82		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/01/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: Dup-04
Sample No: 22-2001-059

Date Collected: 03/29/22
Time Collected: 9:04
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/01/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/06/22				
Preparation Date: 04/05/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: Dup-04
Sample No: 22-2001-059

Date Collected: 03/29/22
Time Collected: 9:04
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/06/22		Preparation Date: 04/05/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: Dup-04
Sample No: 22-2001-059

Date Collected: 03/29/22
Time Collected: 9:04
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/06/22				Preparation Date: 04/05/22
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/05/22				Preparation Date: 04/01/22
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.2	1.0	mg/kg	
Barium	29.2	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	90,200	50	mg/kg	
Chromium	16.4	0.5	mg/kg	
Cobalt	5.8	0.5	mg/kg	
Copper	21.2	0.5	mg/kg	
Iron	18,300	5.0	mg/kg	
Lead	9.7	0.5	mg/kg	
Magnesium	47,000	50	mg/kg	
Manganese	318	0.5	mg/kg	
Nickel	22.5	0.5	mg/kg	
Potassium	2,240	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	398	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	21.7	1.0	mg/kg	
Zinc	40.1	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: Dup-04
Sample No: 22-2001-059

Date Collected: 03/29/22
Time Collected: 9:04
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/05/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/14/22 9:30				
pH @ 25°C, 1:2	7.86		Units	
TCLP Extraction Method: 1311				
Analysis Date: 03/31/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/05/22				
Preparation Method 3010A				
Preparation Date: 04/04/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.4	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.9	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: 04/04/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 03/31/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: Dup-04
Sample No: 22-2001-059

Date Collected: 03/29/22
Time Collected: 9:04
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/05/22		Preparation Date: 04/04/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.014	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.016	0.005	mg/L	
Iron	10.5	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/05/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	86.6	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	94.5	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	101.1	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	110	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	72	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	57	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	88	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	78	35 -	105
8270C	Phenol-d5 (surr)	%R:	73.5	50 -	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: Dup-05
Sample No: 22-2001-060

Date Collected: 03/29/22
Time Collected: 9:05
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 03/31/22				
Total Solids	85.26		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/01/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: Dup-05
Sample No: 22-2001-060

Date Collected: 03/29/22
Time Collected: 9:05
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/01/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/06/22				
Preparation Date: 04/05/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: Dup-05
Sample No: 22-2001-060

Date Collected: 03/29/22
Time Collected: 9:05
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/06/22		Preparation Date: 04/05/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: Dup-05
Sample No: 22-2001-060

Date Collected: 03/29/22
Time Collected: 9:05
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/06/22		Preparation Date: 04/05/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/05/22		Preparation Date: 04/01/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.6	1.0	mg/kg	
Barium	67.4	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	41,200	50	mg/kg	
Chromium	19.4	0.5	mg/kg	
Cobalt	12.7	0.5	mg/kg	
Copper	19.4	0.5	mg/kg	
Iron	21,800	5.0	mg/kg	
Lead	13.2	0.5	mg/kg	
Magnesium	22,800	50	mg/kg	
Manganese	635	0.5	mg/kg	
Nickel	23.0	0.5	mg/kg	
Potassium	1,430	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	1,300	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	32.8	1.0	mg/kg	
Zinc	42.2	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: Dup-05
Sample No: 22-2001-060

Date Collected: 03/29/22
Time Collected: 9:05
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/05/22		Preparation Date: 04/04/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.128	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.150	0.005	mg/L	
Iron	137	0.1	mg/L	
Lead	0.046	0.005	mg/L	
Manganese	0.9	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	
Zinc	0.4	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/05/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	88.7	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	93.3	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	101.2	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	102.5	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	60	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	53	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	90	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	70	35 -	105
8270C	Phenol-d5 (surr)	%R:	69	50 -	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/01/22

Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5

Time Collected: 9:07

Sample ID: DUP - 07

Date Received: 04/04/22

Sample No: 22-2117-049

Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/05/22				
Total Solids	87.79		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/09/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: DUP - 07
Sample No: 22-2117-049

Date Collected: 04/01/22
Time Collected: 9:07
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/09/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/08/22				
Preparation Date: 04/07/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: DUP - 07
Sample No: 22-2117-049

Date Collected: 04/01/22
Time Collected: 9:07
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/08/22		Preparation Date: 04/07/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: DUP - 07
Sample No: 22-2117-049

Date Collected: 04/01/22
Time Collected: 9:07
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/08/22		Preparation Date: 04/07/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/07/22		Preparation Date: 04/06/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.8	1.0	mg/kg	
Barium	29.0	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	0.6	0.5	mg/kg	
Calcium	72,500	50	mg/kg	
Chromium	13.2	0.5	mg/kg	
Cobalt	7.0	0.5	mg/kg	
Copper	19.5	0.5	mg/kg	
Iron	14,600	5.0	mg/kg	
Lead	9.6	0.5	mg/kg	
Magnesium	38,000	50	mg/kg	
Manganese	360	0.5	mg/kg	
Nickel	19.0	0.5	mg/kg	
Potassium	1,570	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	769	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	17.4	1.0	mg/kg	
Zinc	37.6	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: DUP - 07
Sample No: 22-2117-049

Date Collected: 04/01/22
Time Collected: 9:07
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/07/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/15/22 10:49				
pH @ 25°C, 1:2	8.90		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/05/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/08/22				
Preparation Method 3010A				
Preparation Date: 04/08/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.4	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: 04/08/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/05/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: DUP - 07
Sample No: 22-2117-049

Date Collected: 04/01/22
Time Collected: 9:07
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/08/22		Preparation Date: 04/08/22		
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	0.031	0.005	mg/L	
Iron	30.3	0.1	mg/L	
Lead	0.012	0.005	mg/L	
Manganese	0.2	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/07/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	96.9	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	97.3	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	93	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	73.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	65	45	112
8270C	2-Fluorophenol (Surr)	%R:	59.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	91	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	67	35	105
8270C	Phenol-d5 (surr)	%R:	67	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: DUP - 10 (0-5)
Sample No: 22-2256-052

Date Collected: 04/06/22
Time Collected: 9:01
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/13/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/18/22				
Preparation Date: 04/14/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: DUP - 10 (0-5)
Sample No: 22-2256-052

Date Collected: 04/06/22
Time Collected: 9:01
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/18/22		Preparation Date: 04/14/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: DUP - 10 (0-5)
Sample No: 22-2256-052

Date Collected: 04/06/22
Time Collected: 9:01
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/18/22		Preparation Date: 04/14/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/12/22		Preparation Date: 04/11/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.6	1.0	mg/kg	
Barium	29.9	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	76,100	50	mg/kg	
Chromium	14.5	0.5	mg/kg	
Cobalt	7.3	0.5	mg/kg	
Copper	18.5	0.5	mg/kg	
Iron	15,200	5.0	mg/kg	
Lead	9.1	0.5	mg/kg	
Magnesium	39,900	50	mg/kg	
Manganese	335	0.5	mg/kg	
Nickel	18.6	0.5	mg/kg	
Potassium	1,690	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	2,200	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	21.4	1.0	mg/kg	
Zinc	35.0	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: DUP - 10 (0-5)
Sample No: 22-2256-052

Date Collected: 04/06/22
Time Collected: 9:01
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/12/22				
Total Solids	87.56		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/13/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: DUP - 10 (0-5)
Sample No: 22-2256-052

Date Collected: 04/06/22
Time Collected: 9:01
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/12/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/20/22 10:46				
pH @ 25°C, 1:2	8.98		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/12/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/14/22				
Preparation Method 3010A				
Preparation Date: 04/13/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	2.5	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	7.5	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: 04/14/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/12/22				
SPLP Metals Extraction	Complete			
Arsenic	0.013	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: DUP - 10 (0-5)
Sample No: 22-2256-052

Date Collected: 04/06/22
Time Collected: 9:01
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/14/22		Preparation Date: 04/14/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.058	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.071	0.005	mg/L	
Iron	54.6	0.1	mg/L	
Lead	0.028	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	
Zinc	0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/14/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	97.4	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	97.9	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	110	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	111	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	53	45	112
8270C	2-Fluorophenol (Surr)	%R:	57	41	84
8270C	d14-Terphenyl (Surr)	%R:	91	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	62	35	105
8270C	Phenol-d5 (surr)	%R:	73.5	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: DUP - 11 (0-5)
Sample No: 22-2256-053

Date Collected: 04/06/22
Time Collected: 10:09
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/07/22				
Total Solids	79.09		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/13/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: DUP - 11 (0-5)
Sample No: 22-2256-053

Date Collected: 04/06/22
Time Collected: 10:09
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/13/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/18/22				
Preparation Date: 04/14/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: DUP - 11 (0-5)
Sample No: 22-2256-053

Date Collected: 04/06/22
Time Collected: 10:09
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/18/22		Preparation Date: 04/14/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: DUP - 11 (0-5)
Sample No: 22-2256-053

Date Collected: 04/06/22
Time Collected: 10:09
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/18/22		Preparation Date: 04/14/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/12/22		Preparation Date: 04/11/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.3	1.0	mg/kg	
Barium	75.9	0.5	mg/kg	
Beryllium	0.8	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	1,810	50	mg/kg	
Chromium	26.5	0.5	mg/kg	
Cobalt	10.6	0.5	mg/kg	
Copper	27.0	0.5	mg/kg	
Iron	29,400	5.0	mg/kg	
Lead	16.1	0.5	mg/kg	
Magnesium	4,500	50	mg/kg	
Manganese	419	0.5	mg/kg	
Nickel	32.1	0.5	mg/kg	
Potassium	1,820	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	2,550	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	37.8	1.0	mg/kg	
Zinc	58.3	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: DUP - 11 (0-5)
Sample No: 22-2256-053

Date Collected: 04/06/22
Time Collected: 10:09
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/12/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/20/22 10:46				
pH @ 25°C, 1:2	8.05		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/12/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/14/22				
Preparation Method 3010A Preparation Date: 04/13/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 04/14/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/12/22				
SPLP Metals Extraction	Complete			
Arsenic	0.056	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: DUP - 11 (0-5)
Sample No: 22-2256-053

Date Collected: 04/06/22
Time Collected: 10:09
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/14/22		Preparation Date: 04/14/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	0.009	0.004	mg/L	
Cadmium	0.006	0.005	mg/L	
Chromium	0.242	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.232	0.005	mg/L	
Iron	221	0.1	mg/L	
Lead	0.078	0.005	mg/L	
Manganese	1.0	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	
Zinc	0.5	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/14/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	97.1	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.9	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	103.6	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	102	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	53	45	112
8270C	2-Fluorophenol (Surr)	%R:	49.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	96	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	60	35	105
8270C	Phenol-d5 (surr)	%R:	69.5	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/07/22

Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47

Time Collected: 8:10

Sample ID: DUP-15 (5-10)

Date Received: 04/08/22

Sample No: 22-2330-042

Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/14/22				
Total Solids	87.8		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/14/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: DUP-15 (5-10)
Sample No: 22-2330-042

Date Collected: 04/07/22
Time Collected: 8:10
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/14/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/21/22				
Preparation Date: 04/18/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: DUP-15 (5-10)
Sample No: 22-2330-042

Date Collected: 04/07/22
Time Collected: 8:10
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/21/22		Preparation Date: 04/18/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: DUP-15 (5-10)
Sample No: 22-2330-042

Date Collected: 04/07/22
Time Collected: 8:10
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/21/22				Preparation Date: 04/18/22
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/14/22				Preparation Date: 04/14/22
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.3	1.0	mg/kg	
Barium	22.4	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	9.1	0.5	mg/kg	
Cobalt	3.6	0.5	mg/kg	
Copper	12.3	0.5	mg/kg	
Iron	9,840	5.0	mg/kg	
Lead	4.1	0.5	mg/kg	
Magnesium	29,100	50	mg/kg	
Manganese	190	0.5	mg/kg	
Nickel	10.2	0.5	mg/kg	
Potassium	992	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	743	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	14.6	1.0	mg/kg	
Zinc	22.9	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: DUP-15 (5-10)
Sample No: 22-2330-042

Date Collected: 04/07/22
Time Collected: 8:10
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
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	0.019	0.005	mg/L	
Iron	20.4	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/21/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	108.3	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.4	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	99	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	56.5	*	59 - 131
8270C	2-Fluorobiphenyl (Surr)	%R:	51		45 - 112
8270C	2-Fluorophenol (Surr)	%R:	46		41 - 84
8270C	d14-Terphenyl (Surr)	%R:	64		56 - 120
8270C	d5-Nitrobenzene (Surr)	%R:	50		35 - 105
8270C	Phenol-d5 (surr)	%R:	52		50 - 100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: DUP-17 (0-5)
Sample No: 22-2330-044

Date Collected: 04/07/22
Time Collected: 8:16
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/14/22				
Total Solids	85.84		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/14/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: DUP-17 (0-5)
Sample No: 22-2330-044

Date Collected: 04/07/22
Time Collected: 8:16
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/14/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/21/22				
Preparation Date: 04/18/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: DUP-17 (0-5)
Sample No: 22-2330-044

Date Collected: 04/07/22
Time Collected: 8:16
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/21/22		Preparation Date: 04/18/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: DUP-17 (0-5)
Sample No: 22-2330-044

Date Collected: 04/07/22
Time Collected: 8:16
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/21/22				Preparation Date: 04/18/22
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/14/22				Preparation Date: 04/14/22
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.0	1.0	mg/kg	
Barium	54.7	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	48,100	50	mg/kg	
Chromium	19.5	0.5	mg/kg	
Cobalt	10.1	0.5	mg/kg	
Copper	26.4	0.5	mg/kg	
Iron	21,100	5.0	mg/kg	
Lead	20.2	0.5	mg/kg	
Magnesium	29,400	50	mg/kg	
Manganese	514	0.5	mg/kg	
Nickel	25.9	0.5	mg/kg	
Potassium	1,670	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	1,950	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	26.3	1.0	mg/kg	
Zinc	50.2	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: DUP-17 (0-5)
Sample No: 22-2330-044

Date Collected: 04/07/22
Time Collected: 8:16
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/21/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/28/22 10:00				
pH @ 25°C, 1:2	8.90		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/14/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/21/22				
Preparation Method 3010A				
Preparation Date: 04/20/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.2	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	6.5	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: 04/22/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/14/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: DUP-17 (0-5)
Sample No: 22-2330-044

Date Collected: 04/07/22
Time Collected: 8:16
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
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	0.027	0.005	mg/L	
Iron	23.1	0.1	mg/L	
Lead	0.009	0.005	mg/L	
Manganese	0.2	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/21/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98.9	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.3	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	108.4	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	70.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	68	45	112
8270C	2-Fluorophenol (Surr)	%R:	55.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	87	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	69	35	105
8270C	Phenol-d5 (surr)	%R:	66	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: DUP-19
Sample No: 22-2365-038

Date Collected: 04/08/22
Time Collected: 9:19
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	87.75		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/15/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: DUP-19
Sample No: 22-2365-038

Date Collected: 04/08/22
Time Collected: 9:19
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/15/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/22/22				
Preparation Date: 04/20/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: DUP-19
Sample No: 22-2365-038

Date Collected: 04/08/22
Time Collected: 9:19
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: DUP-19
Sample No: 22-2365-038

Date Collected: 04/08/22
Time Collected: 9:19
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/25/22		Preparation Date: 04/19/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.4	1.0	mg/kg	
Barium	41.9	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	14.3	0.5	mg/kg	
Cobalt	8.3	0.5	mg/kg	
Copper	17.3	0.5	mg/kg	
Iron	15,600	5.0	mg/kg	
Lead	8.2	0.5	mg/kg	
Magnesium	50,500	50	mg/kg	
Manganese	352	0.5	mg/kg	
Nickel	20.8	0.5	mg/kg	
Potassium	3,370	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	238	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	19.2	1.0	mg/kg	
Zinc	32.3	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: DUP-19
Sample No: 22-2365-038

Date Collected: 04/08/22
Time Collected: 9:19
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/27/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/28/22 12:45				
pH @ 25°C, 1:2	8.13		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/20/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/29/22				
Preparation Method 3010A				
Preparation Date: 04/25/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.8	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: 05/03/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/20/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: DUP-19
Sample No: 22-2365-038

Date Collected: 04/08/22
Time Collected: 9:19
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/27/22		Preparation Date: 04/21/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	0.8	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/03/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	95.2	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.9	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	104.8	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	108.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	69	45	112
8270C	2-Fluorophenol (Surr)	%R:	62	41	84
8270C	d14-Terphenyl (Surr)	%R:	90	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	80	35	105
8270C	Phenol-d5 (surr)	%R:	80.5	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: DUP-22 (15-20)
Sample No: 22-2423-048

Date Collected: 04/11/22
Time Collected: 8:30
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/18/22				
Total Solids	90.79		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/20/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: DUP-22 (15-20)
Sample No: 22-2423-048

Date Collected: 04/11/22
Time Collected: 8:30
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/20/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/25/22				
Preparation Date: 04/22/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: DUP-22 (15-20)
Sample No: 22-2423-048

Date Collected: 04/11/22
Time Collected: 8:30
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/25/22		Preparation Date: 04/22/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: DUP-22 (15-20)
Sample No: 22-2423-048

Date Collected: 04/11/22
Time Collected: 8:30
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/25/22		Preparation Date: 04/22/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/28/22		Preparation Date: 04/28/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	2.0	1.0	mg/kg	
Barium	17.6	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	70,600	50	mg/kg	
Chromium	7.1	0.5	mg/kg	
Cobalt	3.2	0.5	mg/kg	
Copper	8.1	0.5	mg/kg	
Iron	8,270	5.0	mg/kg	
Lead	3.4	0.5	mg/kg	
Magnesium	36,100	50	mg/kg	
Manganese	208	0.5	mg/kg	
Nickel	8.3	0.5	mg/kg	
Potassium	856	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	128	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	11.4	1.0	mg/kg	
Zinc	18.6	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: DUP-22 (15-20)
Sample No: 22-2423-048

Date Collected: 04/11/22
Time Collected: 8:30
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/29/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/29/22 10:30				
pH @ 25°C, 1:2	8.44		Units	
TCLP Extraction Method: 1311				
Analysis Date: 05/02/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 05/11/22				
Preparation Method 3010A				
Preparation Date: 05/09/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.8	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: 05/06/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 05/02/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: DUP-22 (15-20)
Sample No: 22-2423-048

Date Collected: 04/11/22
Time Collected: 8:30
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/11/22		Preparation Date: 05/10/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/09/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	96.5	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.2	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	102.9	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	84	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	73	45	112
8270C	2-Fluorophenol (Surr)	%R:	69	41	84
8270C	d14-Terphenyl (Surr)	%R:	99	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	73	35	105
8270C	Phenol-d5 (surr)	%R:	77.5	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: DUP-28 (4-8)
Sample No: 22-2456-058

Date Collected: 04/12/22
Time Collected: 8:30
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/20/22				
Total Solids	89.94		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/22/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: DUP-28 (4-8)
Sample No: 22-2456-058

Date Collected: 04/12/22
Time Collected: 8:30
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/22/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/03/22				
Preparation Date: 04/26/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: DUP-28 (4-8)
Sample No: 22-2456-058

Date Collected: 04/12/22
Time Collected: 8:30
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/03/22		Preparation Date: 04/26/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: DUP-28 (4-8)
Sample No: 22-2456-058

Date Collected: 04/12/22
Time Collected: 8:30
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/03/22		Preparation Date: 04/26/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/03/22		Preparation Date: 04/30/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.8	1.0	mg/kg	
Barium	28.5	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	78,900	50	mg/kg	
Chromium	12.9	0.5	mg/kg	
Cobalt	7.1	0.5	mg/kg	
Copper	16.5	0.5	mg/kg	
Iron	14,200	5.0	mg/kg	
Lead	7.3	0.5	mg/kg	
Magnesium	39,400	50	mg/kg	
Manganese	328	0.5	mg/kg	
Nickel	17.5	0.5	mg/kg	
Potassium	1,850	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	372	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	18.1	1.0	mg/kg	
Zinc	33.1	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: DUP-28 (4-8)
Sample No: 22-2456-058

Date Collected: 04/12/22
Time Collected: 8:30
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 05/03/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 05/10/22 9:45				
pH @ 25°C, 1:2	8.95		Units	
TCLP Extraction Method: 1311				
Analysis Date: 05/05/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 05/16/22				
Preparation Method 3010A				
Preparation Date: 05/12/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.3	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: 05/11/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 05/05/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: DUP-28 (4-8)
Sample No: 22-2456-058

Date Collected: 04/12/22
Time Collected: 8:30
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/18/22		Preparation Date: 05/12/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.032	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.039	0.005	mg/L	
Iron	29.6	0.1	mg/L	
Lead	0.011	0.005	mg/L	
Manganese	0.2	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/12/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98.5	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.2	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	106.4	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	74.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	66	45	112
8270C	2-Fluorophenol (Surr)	%R:	56.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	83	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	67	35	105
8270C	Phenol-d5 (surr)	%R:	64.5	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/14/22

Project ID: IDOT 199-014 WO #5 IL 47 Lakewood

Time Collected: 8:20

Sample ID: DUP-31

Date Received: 04/15/22

Sample No: 22-2551-045

Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/21/22				
Total Solids	87.45		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/26/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: DUP-31
Sample No: 22-2551-045

Date Collected: 04/14/22
Time Collected: 8:20
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/26/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/04/22				
Preparation Date: 04/28/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/14/22

Project ID: IDOT 199-014 WO #5 IL 47 Lakewood

Time Collected: 8:20

Sample ID: DUP-31

Date Received: 04/15/22

Sample No: 22-2551-045

Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/04/22		Preparation Date: 04/28/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: DUP-31
Sample No: 22-2551-045

Date Collected: 04/14/22
Time Collected: 8:20
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/04/22		Preparation Date: 04/28/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/10/22		Preparation Date: 05/09/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	2.8	1.0	mg/kg	
Barium	31.4	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	79,200	50	mg/kg	
Chromium	12.2	0.5	mg/kg	
Cobalt	6.0	0.5	mg/kg	
Copper	14.2	0.5	mg/kg	
Iron	12,100	5.0	mg/kg	
Lead	5.4	0.5	mg/kg	
Magnesium	38,100	50	mg/kg	
Manganese	284	0.5	mg/kg	
Nickel	14.9	0.5	mg/kg	
Potassium	1,660	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	148	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	17.5	1.0	mg/kg	
Zinc	27.9	1.0	mg/kg	



Analytical Report

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Sample ID: DUP-31
Sample No: 22-2551-045

Date Collected: 04/14/22
Time Collected: 8:20
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 05/09/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 05/17/22 11:25				
pH @ 25°C, 1:2	8.46		Units	
TCLP Extraction Method: 1311				
Analysis Date: 05/09/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 05/24/22				
Preparation Method 3010A				
Preparation Date: 05/23/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.7	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: 05/20/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 05/09/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: DUP-31
Sample No: 22-2551-045

Date Collected: 04/14/22
Time Collected: 8:20
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/25/22		Preparation Date: 05/23/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	0.3	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/20/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	97.5	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	103.7	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	110.1	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	85.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	77	45	112
8270C	2-Fluorophenol (Surr)	%R:	59.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	94	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	66	35	105
8270C	Phenol-d5 (surr)	%R:	68	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/14/22

Project ID: IDOT 199-014 WO #5 IL 47 Lakewood

Time Collected: 8:25

Sample ID: DUP-32

Date Received: 04/15/22

Sample No: 22-2551-046

Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/21/22				
Total Solids	82.74		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/26/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/14/22

Project ID: IDOT 199-014 WO #5 IL 47 Lakewood

Time Collected: 8:25

Sample ID: DUP-32

Date Received: 04/15/22

Sample No: 22-2551-046

Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/26/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/04/22				
Preparation Date: 04/28/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: DUP-32
Sample No: 22-2551-046

Date Collected: 04/14/22
Time Collected: 8:25
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/04/22		Preparation Date: 04/28/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: DUP-32
Sample No: 22-2551-046

Date Collected: 04/14/22
Time Collected: 8:25
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/04/22		Preparation Date: 04/28/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/10/22		Preparation Date: 05/09/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.9	1.0	mg/kg	
Barium	46.3	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	47,200	50	mg/kg	
Chromium	17.4	0.5	mg/kg	
Cobalt	9.8	0.5	mg/kg	
Copper	20.8	0.5	mg/kg	
Iron	20,000	5.0	mg/kg	
Lead	12.4	0.5	mg/kg	
Magnesium	31,500	50	mg/kg	
Manganese	514	0.5	mg/kg	
Nickel	24.4	0.5	mg/kg	
Potassium	1,430	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	1,910	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	27.6	1.0	mg/kg	
Zinc	41.9	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.	Date Collected: 04/14/22
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood	Time Collected: 8:25
Sample ID: DUP-32	Date Received: 04/15/22
Sample No: 22-2551-046	Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 05/09/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 05/17/22 11:25				
pH @ 25°C, 1:2	8.75		Units	
TCLP Extraction Method: 1311				
Analysis Date: 05/09/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 05/24/22				
Preparation Method 3010A				
Preparation Date: 05/23/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.3	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 05/20/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 05/09/22				
SPLP Metals Extraction	Complete			
Arsenic	0.012	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: DUP-32
Sample No: 22-2551-046

Date Collected: 04/14/22
Time Collected: 8:25
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/24/22		Preparation Date: 05/23/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.054	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.042	0.005	mg/L	
Iron	48.9	0.1	mg/L	
Lead	0.019	0.005	mg/L	
Manganese	0.4	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/20/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	97	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	101.9	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	107.6	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	79	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	80	45	112
8270C	2-Fluorophenol (Surr)	%R:	46.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	105	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	68	35	105
8270C	Phenol-d5 (surr)	%R:	64	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: DUP-36
Sample No: 22-2550-026

Date Collected: 04/15/22
Time Collected: 8:36
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/20/22				
Total Solids	86.42		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/23/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: DUP-36
Sample No: 22-2550-026

Date Collected: 04/15/22
Time Collected: 8:36
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/23/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/01/22				
Preparation Date: 04/29/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: DUP-36
Sample No: 22-2550-026

Date Collected: 04/15/22
Time Collected: 8:36
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/01/22		Preparation Date: 04/29/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: DUP-36
Sample No: 22-2550-026

Date Collected: 04/15/22
Time Collected: 8:36
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/01/22				Preparation Date: 04/29/22
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/05/22				Preparation Date: 05/04/22
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.8	1.0	mg/kg	
Barium	29.9	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	73,500	50	mg/kg	
Chromium	14.4	0.5	mg/kg	
Cobalt	8.0	0.5	mg/kg	
Copper	22.8	0.5	mg/kg	
Iron	19,600	5.0	mg/kg	
Lead	10.5	0.5	mg/kg	
Magnesium	38,100	50	mg/kg	
Manganese	315	0.5	mg/kg	
Nickel	21.0	0.5	mg/kg	
Potassium	1,740	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	114	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	18.6	1.0	mg/kg	
Zinc	48.8	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: DUP-36
Sample No: 22-2550-026

Date Collected: 04/15/22
Time Collected: 8:36
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 05/04/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 05/16/22 13:00				
pH @ 25°C, 1:2	8.57		Units	
TCLP Extraction Method: 1311				
Analysis Date: 05/11/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 05/20/22				
Preparation Method 3010A				
Preparation Date: 05/17/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.3	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 05/17/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 05/10/22				
SPLP Metals Extraction	Complete			
Arsenic	0.035	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: DUP-36
Sample No: 22-2550-026

Date Collected: 04/15/22
Time Collected: 8:36
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/19/22		Preparation Date: 05/17/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.051	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.052	0.005	mg/L	
Iron	51.9	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	
Zinc	0.2	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/17/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	92.2	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.7	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	106.3	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	82.5	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	70	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	67	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	98	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	78	35 -	105
8270C	Phenol-d5 (surr)	%R:	74	50 -	100



Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: IDOT 199-014 WO 05 IL RT 47/IL RT 176 - PSI Office Phone Number, if available: 847-705-4122

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

See attachment for a list of physical site locations

City: Lakewood State: IL Zip Code: 60098

County: McHenry Township: _____

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

Latitude: 42.24997 Longitude: - 88.42758

(Decimal Degrees)

(-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

Google Earth - Approximate center of multiple addresses

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

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

Estimated Volume of debris (cu. Yd.): 53,000

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Dept of Transportation, District 1

Street Address: 201 W. Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

Site Operator

Name: Illinois Dept of Transportation, District 1

Street Address: 201 W. Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

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

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

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

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

Refer to Figure 4-1.1 through 4-1.15 in the Final PSI Report and attachment for a list of borings with stationing.

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

Refer to Tables 4-2 and 4-3 in the Final PSI Report for results summary and First Environmental Laboratories, Inc. report numbers #22-2001, #22-2117, #22-2256, #22-2330, #22-2365, #22-2423, #22-2456, #22-2550, and #22-2551. Site specific table of results is attached to this form.

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

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

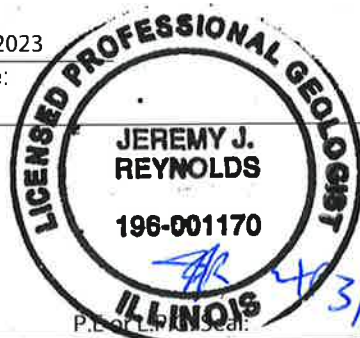
Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

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

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



Licensed Professional Engineer or
Licensed Professional Geologist Signature:

Sep 29, 2023
Date: _____

P.E. or L.P. Seal:

LPC-663
Uncontaminated Soil Certification Form
Attachment

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

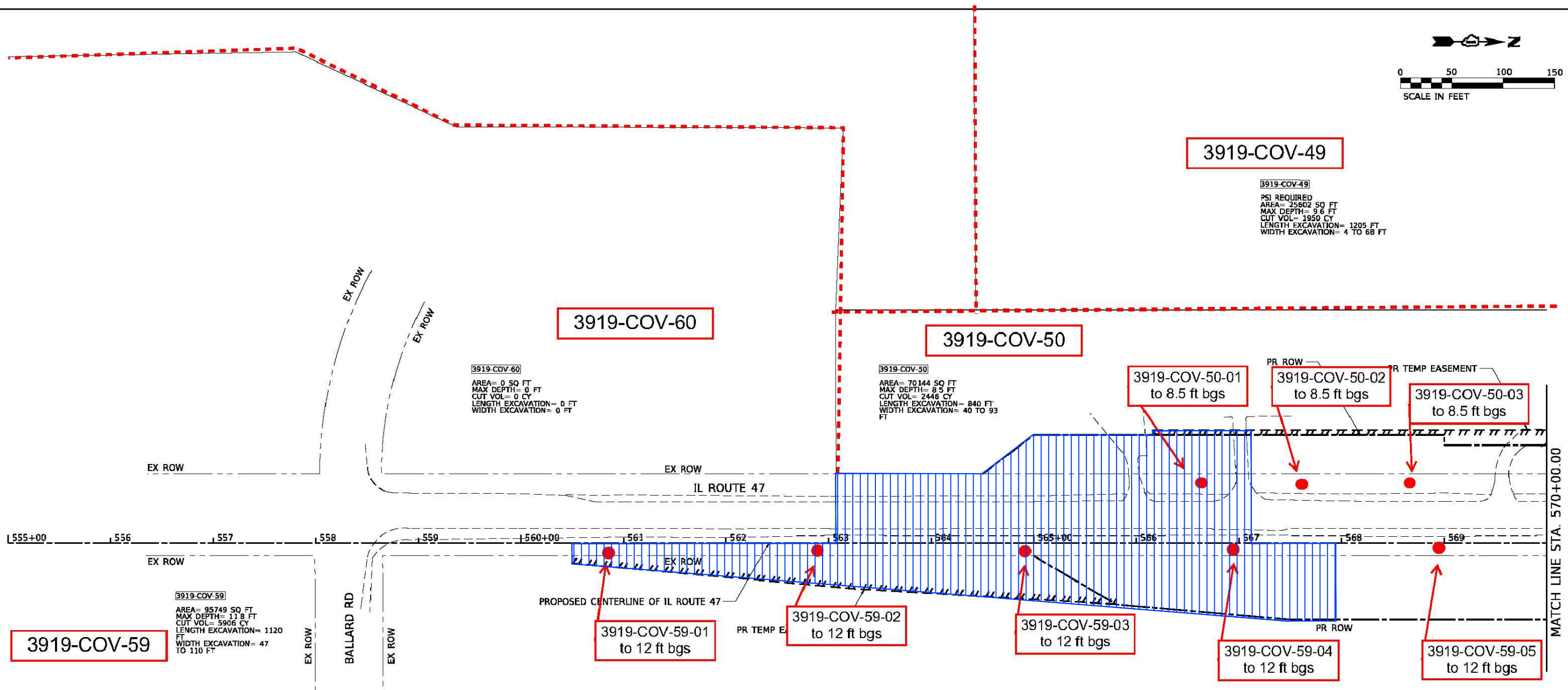
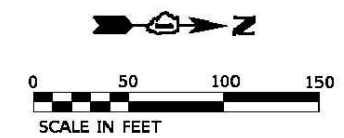
ISGS Site No.	Site Name and address
3919-COV-13	Agricultural Land (4700-4900 Blocks of S. IL 47)
3919-COV-16	Vacant Land (4700 Block of S. IL 47)
3919-COV-18	Agricultural Land (12400-12800 Block of S. IL 176)
3919-COV-30	Vacant Land (12700 Block of S. IL 176)
3919-COV-32	The Gardens of Woodstock (5211 Swanson Road)
3919-COV-33	Vacant Land (5100 Block of S. IL 47)
3919-COV-41	Agricultural Land (5100-5800 Blocks of S. IL 47)
3919-COV-47	Agricultural Land (11700-12300 Blocks of Pleasant Valley Road)
3919-COV-48	Farmstead (11717 of Pleasant Valley Road)
3919-COV-49	Crystal Woods Golf Course (5915 S. IL 47)
3919-COV-50	Residence (6007 S. IL 47)
3919-COV-51	Vacant Land (11300-11500 Blocks of IL 176)
3919-COV-53	Residence (6002 S. IL 47)
3919-COV-54	Vacant Land (6000 Blocks of S. IL 47)
3919-COV-56	Commercial Buildings (11100 IL 176)
3919-COV-57	Beyond Stable Farms (11117 IL 176)
3919-COV-59	Agricultural Land (6100-6500 Blocks of S. IL 47)

LPC-663
Uncontaminated Soil Certification Form
Attachment

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

ISGS Boring No.	Approximate Stationing
3919-COV-13-03	IL Rt. 47 Sta. 641+20, 40 Right
3919-COV-13-09	IL Rt. 47 Sta. 639+00, 70 Left
3919-COV-13-18	IL Rt. 176 Sta. 418+90, 20 Left
3919-COV-16-02	IL Rt. 47 Sta. 651+40, 40 Right
3919-COV-18-03	IL Rt. 176 Sta. 398+00, 20 Left
3919-COV-18-04	IL Rt. 176 Sta. 400+00, 20 Left
3919-COV-30-05	IL Rt. 176 Sta. 411+50, 110 Right
3919-COV-30-11	IL Rt. 176 Sta. 423+80, 80 Right
3919-COV-30-13	Swanson Rd Sta. 504+80, 00 Left
3919-COV-32-01	Swanson Rd Sta. 502+00, 10 Left
3919-COV-32-02	Swanson Rd Sta. 504+00, 10 Left
3919-COV-33-01	IL Rt. 176 Sta. 427+10, 60 Right
3919-COV-33-02	IL Rt. 47 Sta. 632+30, 100 Left
3919-COV-41-04	Existing Pleasant Valley Road Sta. 414+00, 40 Left
3919-COV-41-06	IL Rt. 47 Sta. 617+50, 20 Left
3919-COV-41-07	IL Rt. 47 Sta. 619+50, 20 Left
3919-COV-41-08	IL Rt. 47 Sta. 621+50, 20 Left
3919-COV-41-09	IL Rt. 47 Sta. 623+50, 20 Left
3919-COV-41-10	IL Rt. 47 Sta. 625+50, 20 Left
3919-COV-41-11	IL Rt. 47 Sta. 627+60, 60 Left
3919-COV-41-12	IL Rt. 47 Sta. 629+60, 60 Left
3919-COV-41-13	IL Rt. 47 Sta. 629+60, 20 Right
3919-COV-41-15	IL Rt. 47 Sta. 625+50, 20 Right
3919-COV-41-16	IL Rt. 47 Sta. 623+50, 20 Right
3919-COV-41-17	IL Rt. 47 Sta. 621+50, 20 Right
3919-COV-41-19	IL Rt. 47 Sta. 617+50, 20 Right
3919-COV-41-21	IL Rt. 47 Sta. 613+30, 20 Right
3919-COV-41-22	IL Rt. 47 Sta. 611+20, 20 Right

ISGS Boring No.	Approximate Stationing
3919-COV-41-25	IL Rt. 47 Sta. 605+10, 20 Right
3919-COV-47-02	IL Rt. 47 Sta. 589+10, 300 Left
3919-COV-47-06	IL Rt. 176 Sta. 289+10, 00 Left
3919-COV-47-07	IL Rt. 176 Sta. 287+10, 00 Left
3919-COV-47-08	IL Rt. 176 Sta. 285+10, 10 Left
3919-COV-47-11	IL Rt. 176 Sta. 279+50, 20 Right
3919-COV-48-01	Existing Pleasant Valley Road Sta. 408+00, 40 Right
3919-COV-48-04	Existing Pleasant Valley Road Sta. 414+00, 40 Right
3919-COV-48-06	IL Rt. 47 Sta. 592+50, 50 Left
3919-COV-49-09	IL Rt. 47 Sta. 581+00, 50 Left
3919-COV-50-02	IL Rt. 47 Sta. 567+60, 60 Left
3919-COV-50-03	IL Rt. 47 Sta. 568+75, 60 Left
3919-COV-51-03	IL Rt. 47 Sta. 801+50, 40 Left
3919-COV-51-04	IL Rt. 47 Sta. 590+10, 120 Right
3919-COV-51-05	IL Rt. 47 Sta. 804+00, 70 Left
3919-COV-51-06	IL Rt. 176 Sta. 304+30, 100 Left/IL Rt. 47 Sta. 806+15, 50 Left
3919-COV-51-07	IL Rt. 176 Sta. 306+30, 50 Left
3919-COV-51-09	IL Rt. 176 Sta. 310+30, 50 Left
3919-COV-51-10	IL Rt. 176 Sta. 312+30, 50 Left
3919-COV-53-02	IL Rt. 47 Sta. 578+60, 10 Right
3919-COV-54-01	IL Rt. 47 Sta. 573+00, 10 Right
3919-COV-56-01	IL Rt. 176 Sta. 313+50, 50 Left
3919-COV-56-02	IL Rt. 176 Sta. 315+50, 50 Left
3919-COV-56-03	IL Rt. 176 Sta. 317+50, 50 Left
3919-COV-56-04	IL Rt. 176 Sta. 319+50, 50 Left
3919-COV-56-05	IL Rt. 176 Sta. 321+60, 50 Left
3919-COV-57-06	IL Rt. 176 Sta. 323+10, 30 Right
3919-COV-59-05	IL Rt. 47 Sta. 568+90, 10 Right



3919-COV-60
 AREA= 0 SQ FT
 MAX DEPTH= 0 FT
 CUT VOL= 0 CY
 LENGTH EXCAVATION= 0 FT
 WIDTH EXCAVATION= 0 FT

3919-COV-50
 AREA= 70144 SQ FT
 MAX DEPTH= 8.5 FT
 CUT VOL= 2446 CY
 LENGTH EXCAVATION= 840 FT
 WIDTH EXCAVATION= 40 TO 93 FT

3919-COV-49
 PSI REQUIRED
 AREA= 25802 SQ FT
 MAX DEPTH= 9.6 FT
 CUT VOL= 1950 CY
 LENGTH EXCAVATION= 1205 FT
 WIDTH EXCAVATION= 4 TO 68 FT

3919-COV-59
 AREA= 95749 SQ FT
 MAX DEPTH= 11.8 FT
 CUT VOL= 5906 CY
 LENGTH EXCAVATION= 1120 FT
 WIDTH EXCAVATION= 47 TO 110 FT

3919-COV-59
 AREA= 95749 SQ FT
 MAX DEPTH= 11.8 FT
 CUT VOL= 5906 CY
 LENGTH EXCAVATION= 1120 FT
 WIDTH EXCAVATION= 47 TO 110 FT

LEGEND	
	SOIL BORING LOCATION
	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 HATCHING ARE CONSIDERED UNRESTRICTED FOR REUSE AND OFF-SITE DISPOSAL.	

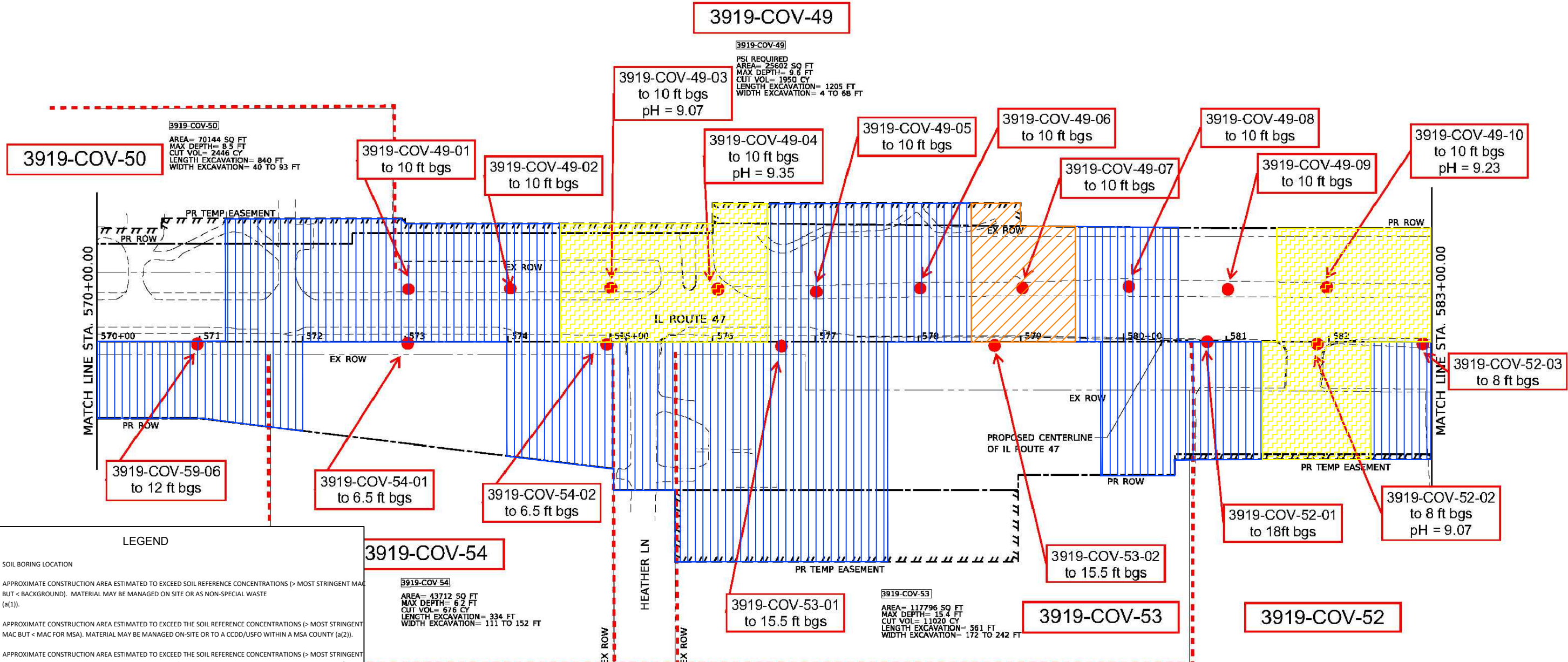
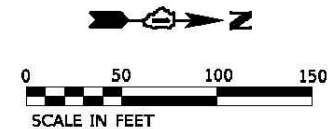
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 STRAND ASSOCIATES
 1170 SOUTH HOUBOLT ROAD
 JOLIET, ILLINOIS 60431
 (815) 744-4200

USER NAME	= StevenB	DESIGNED	= MAG	REVISED	=
DRAWN	= DJW	REVISIONS	=	REVISED	=
CHECKED	= SIG	REVISIONS	=	REVISED	=
DATE	= 4/20/2021	REVISIONS	=	REVISED	=

Figure 4-1.1 Extent of Potentially Impacted Soil
Huff & Huff, Inc. 199-014 WO #5

IL ROUTE 47	
PESA RESPONSE EXHIBIT	
SCALE: 1"=50'	SHEET 1 OF 8 SHEETS
STA. 555+00.00 TO STA. 570+00.00	

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	105-N-2(13)	MCHENRY	16	16
CONTRACT NO. 62B43			ILLINOIS FED. AID PROJECT	



LEGEND

- SOIL BORING LOCATION
- [Hatched Box] 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)).
- [Blue Hatched Box] 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)).
- [Green Hatched Box] 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)).
- [Pink Hatched Box] 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)).
- [Orange Hatched Box] APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS. MATERIAL MAY BE MANAGED AS A NON-SPECIAL WASTE (a(5)).
- [Purple Hatched Box] 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)).
- [Grid Box] 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.

3919-COV-54

PSI REQUIRED
 AREA= 43712 SQ FT
 MAX DEPTH= 62 FT
 CUT VOL= 676 CY
 LENGTH EXCAVATION= 334 FT
 WIDTH EXCAVATION= 111 TO 152 FT

3919-COV-53

PSI REQUIRED
 AREA= 117796 SQ FT
 MAX DEPTH= 15.4 FT
 CUT VOL= 11020 CY
 LENGTH EXCAVATION= 561 FT
 WIDTH EXCAVATION= 172 TO 242 FT

3919-COV-52

PSI REQUIRED
 AREA= 101405 SQ FT
 MAX DEPTH= 25.0 FT
 CUT VOL= 4310 CY
 LENGTH EXCAVATION= 1123 FT
 WIDTH EXCAVATION= 0 TO 73 FT

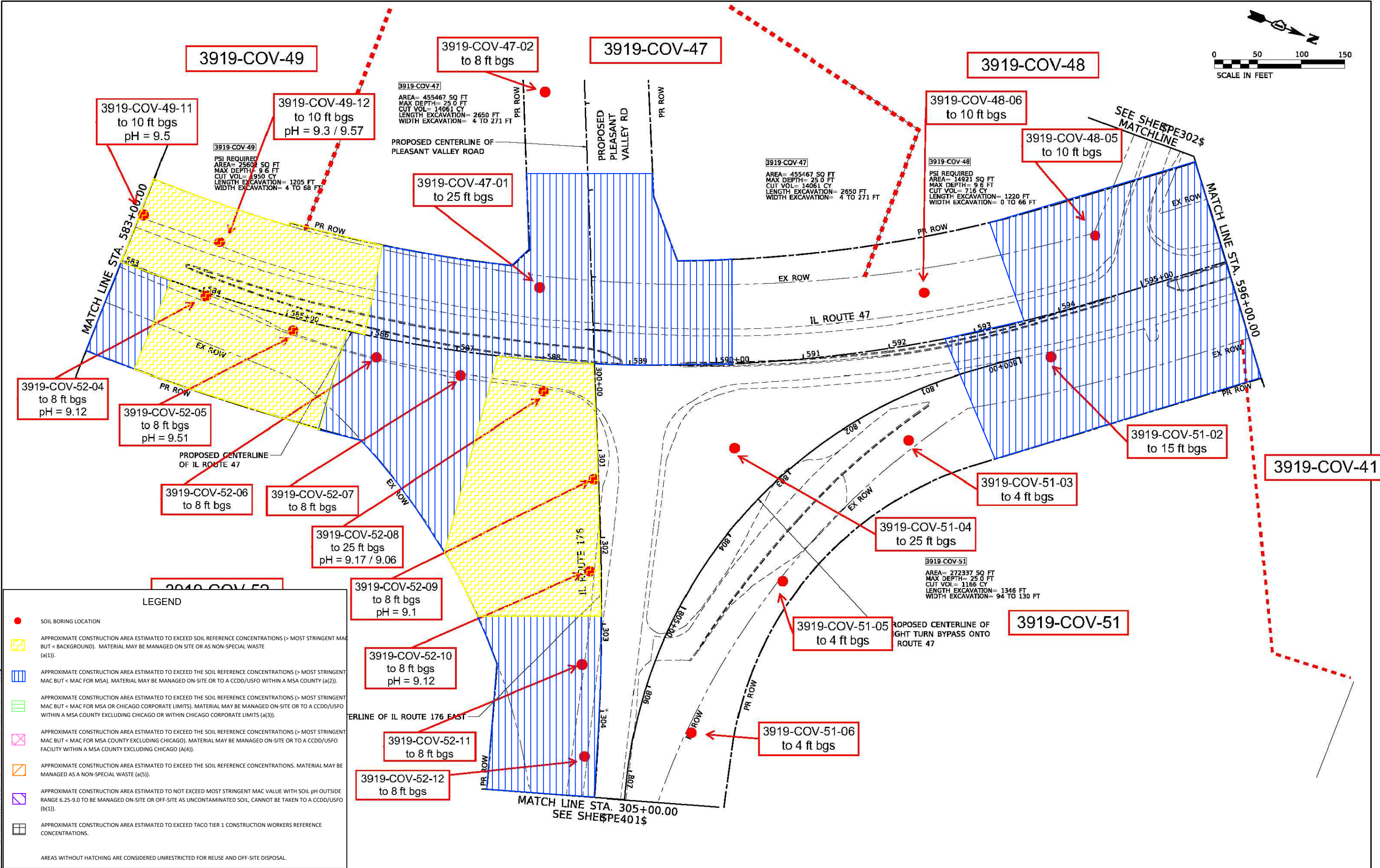
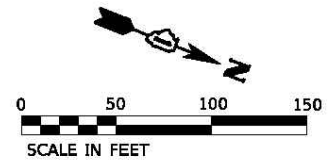
Figure 4-1.2 Extent of Potentially Impacted Soil
 Huff & Huff, Inc. 199-014 WO #5

IL ROUTE 47
PESA RESPONSE EXHIBIT

SCALE: 1" = 50' SHEET 2 OF 8 SHEETS STA. 570+00.00 TO STA. 583+00.00

F A P RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	105-N-2(15)	MCHENRY	16	102
CONTRACT NO. 62B43			ILLINOIS FED AID PROJECT	

USER NAME = Stevens	DESIGNED - MAG	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - DJW	REVISED -
PLOT DATE = 4/1/2021	CHECKED - SJG	REVISED -
	DATE - 4/20/2021	REVISED -



LEGEND

- SOIL BORING LOCATION
- [Yellow Hatched] 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)).
- [Blue Hatched] 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)).
- [Green Hatched] 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)).
- [Pink Hatched] 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)).
- [Orange Hatched] APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS. MATERIAL MAY BE MANAGED AS A NON-SPECIAL WASTE (a(5)).
- [Purple Hatched] 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)).
- [White Hatched] 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 4-1.3 Soil Extent of Potentially Impacted Soil
Huff & Huff, Inc. 199-014 WO #5

STRAND ASSOCIATES
1170 SOUTH HOBOLT ROAD
JOLET, ILLINOIS 60431
(815) 744-4200

USER NAME	= StevenB
DESIGNED	= MAG
DRAWN	= DJW
CHECKED	= SJG
DATE	= 4/20/2021

REVISIONS	
1	DESIGNED - MAG
2	DRAWN - DJW
3	CHECKED - SJG
4	DATE - 4/20/2021

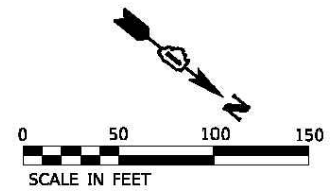
SCALE	= 1" = 50'
SHEET	= 3 OF 8 SHEETS
STA.	= 583+00.00 TO STA. 596+00.00

IL ROUTE 47
PESA RESPONSE EXHIBIT

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	105-N-2(15)	MCHENRY	16	1038
CONTRACT NO. 62B43			ILLINOIS FED. AID PROJECT	

LEGEND

- SOIL BORING LOCATION
 - 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 HATCHING ARE CONSIDERED UNRESTRICTED FOR REUSE AND OFF-SITE DISPOSAL.



3919-COV-45

3919-COV-45
 AREA= 0 SQ FT
 MAX DEPTH= 0 FT
 CUT VOL= 0 CY
 LENGTH EXCAVATION= 0 FT
 WIDTH EXCAVATION= 0 FT

3919-COV-41

3919-COV-41
 AREA= 1161037 SQ FT
 MAX DEPTH= 25.0 FT
 CUT VOL= 66894 CY
 LENGTH EXCAVATION= 3800 FT
 WIDTH EXCAVATION= 130 TO 345 FT

3919-COV-41-33
 to 11 ft bgs

3919-COV-41-32
 to 11 ft bgs

3919-COV-41-31
 to 11 ft bgs

3919-COV-41-30
 to 11 ft bgs

3919-COV-41-34
 to 11 ft bgs
 pH = 9.07

3919-COV-41-36
 to 11 ft bgs

3919-COV-41-35
 to 11 ft bgs

3919-COV-41-29
 to 11 ft bgs

3919-COV-41-28
 to 11 ft bgs

3919-COV-41-27
 to 11 ft bgs

3919-COV-41-26
 to 11 ft bgs

3919-COV-41-25
 to 11 ft bgs

3919-COV-41-24
 to 11 ft bgs

3919-COV-41-23
 to 11 ft bgs

3919-COV-51

3919-COV-51
 AREA= 272337 SQ FT
 MAX DEPTH= 25.0 FT
 CUT VOL= 1166 CY
 LENGTH EXCAVATION= 1346 FT
 WIDTH EXCAVATION= 94 TO 130 FT

3919-COV-41

3919-COV-41
 AREA= 1161037 SQ FT
 MAX DEPTH= 25.0 FT
 CUT VOL= 66894 CY
 LENGTH EXCAVATION= 3800 FT
 WIDTH EXCAVATION= 130 TO 345 FT

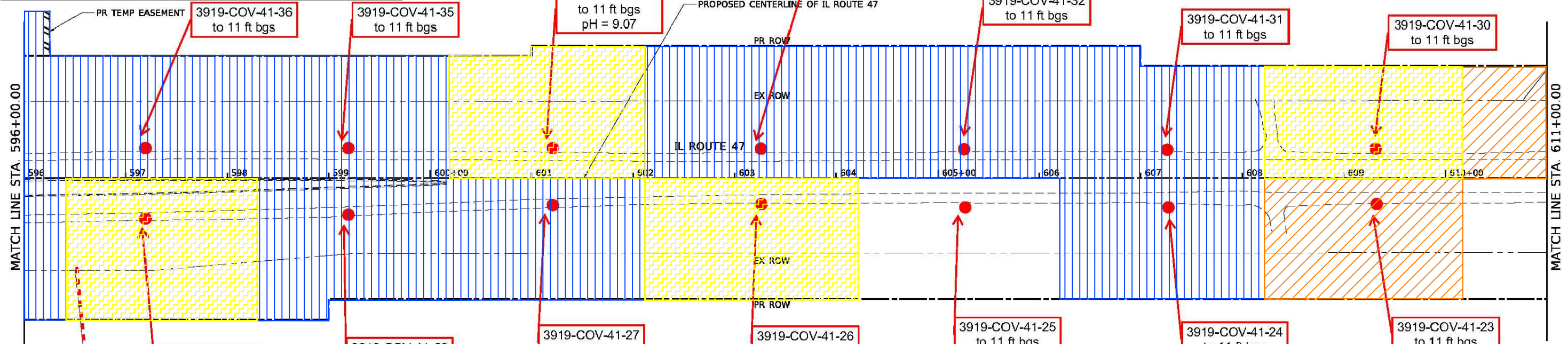


Figure 4-1.4 Extent of Potentially Impacted Soil
 Huff & Huff, Inc. 199-014 WO #5

IL ROUTE 47
PESA RESPONSE EXHIBIT

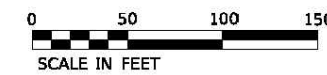


USER NAME = StevenB	DESIGNED - MAG	REVISED -
PLOT SCALE = 100.0000' / in.	DRAWN - DJW	REVISED -
PLOT DATE = 4/2/2021	CHECKED - SJG	REVISED -
	DATE - 4/20/2021	REVISED -

SCALE: 1" = 50'	SHEET 4 OF 8 SHEETS	STA. 596+00.00 TO STA. 611+00.00
-----------------	---------------------	----------------------------------

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	105-N-2(15)	MCHENRY	16	8PE1048
CONTRACT NO. 62B43				
ILLINOIS FED. AID PROJECT				

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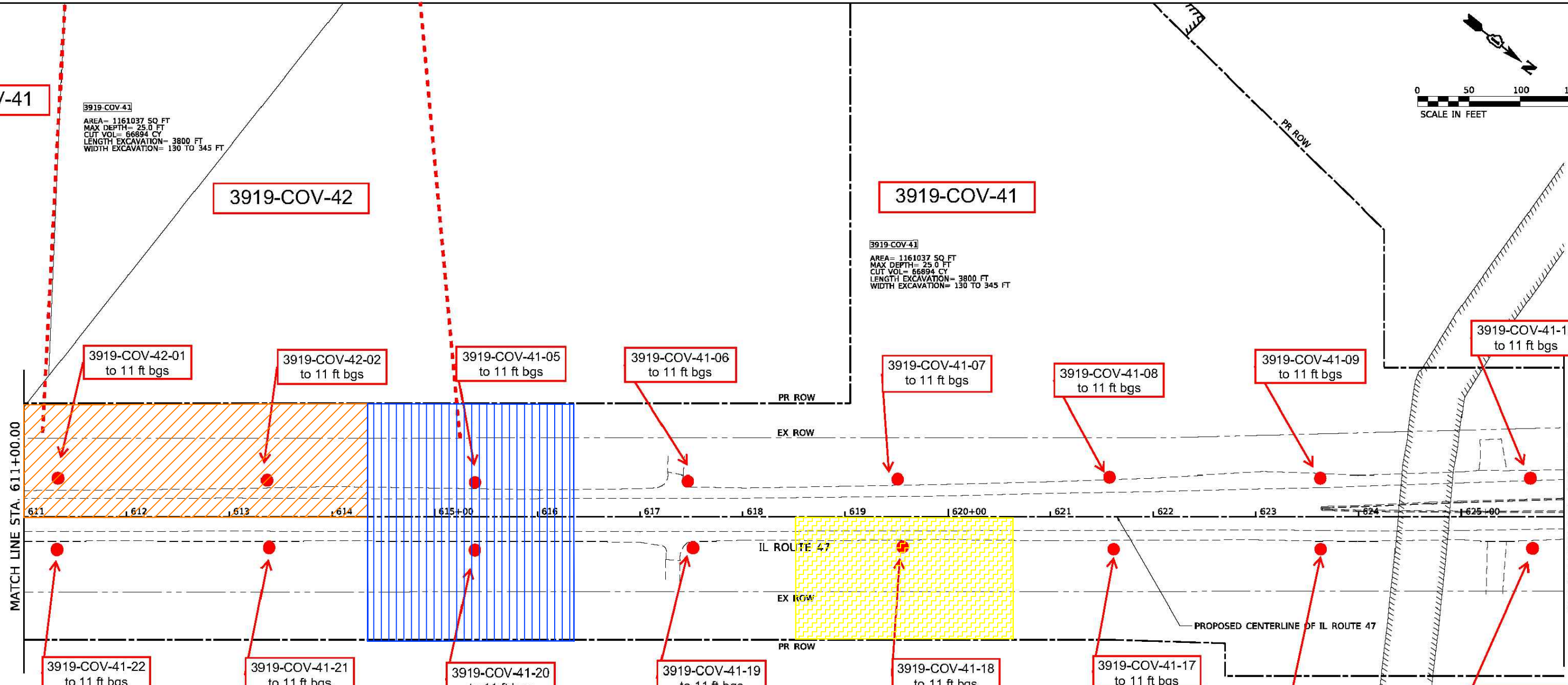
3919-COV-41

3919-COV-41
 AREA= 1161037 SQ FT
 MAX DEPTH= 25.0 FT
 CUT VOL= 66894 CY
 LENGTH EXCAVATION= 3800 FT
 WIDTH EXCAVATION= 130 TO 345 FT

3919-COV-42

3919-COV-41

3919-COV-41
 AREA= 1161037 SQ FT
 MAX DEPTH= 25.0 FT
 CUT VOL= 66894 CY
 LENGTH EXCAVATION= 3800 FT
 WIDTH EXCAVATION= 130 TO 345 FT



LEGEND

- SOIL BORING LOCATION
- 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 HATCHING ARE CONSIDERED UNRESTRICTED FOR REUSE AND OFF-SITE DISPOSAL.

3919-COV-41

3919-COV-41
 AREA= 1161037 SQ FT
 MAX DEPTH= 25.0 FT
 CUT VOL= 66894 CY
 LENGTH EXCAVATION= 3800 FT
 WIDTH EXCAVATION= 130 TO 345 FT

Figure 4-1.5 Extent of Potentially Impacted Soil
 Huff & Huff, Inc. 199-014 WO #5

IL ROUTE 47
 REMOVAL PLAN



1170 SOUTH HOBOLT ROAD
 JOLIET, ILLINOIS 60451
 (815) 744-4200

USER NAME = StevenB
 DESIGNED - MAG
 DRAWN - DJW
 CHECKED - SJG
 DATE - 4/20/2021

REVISED -
 REVISED -
 REVISED -
 REVISED -

SCALE: 1" = 50'
 SHEET 5 OF 8 SHEETS
 STA. 611+00.00 TO STA. 626+00.00

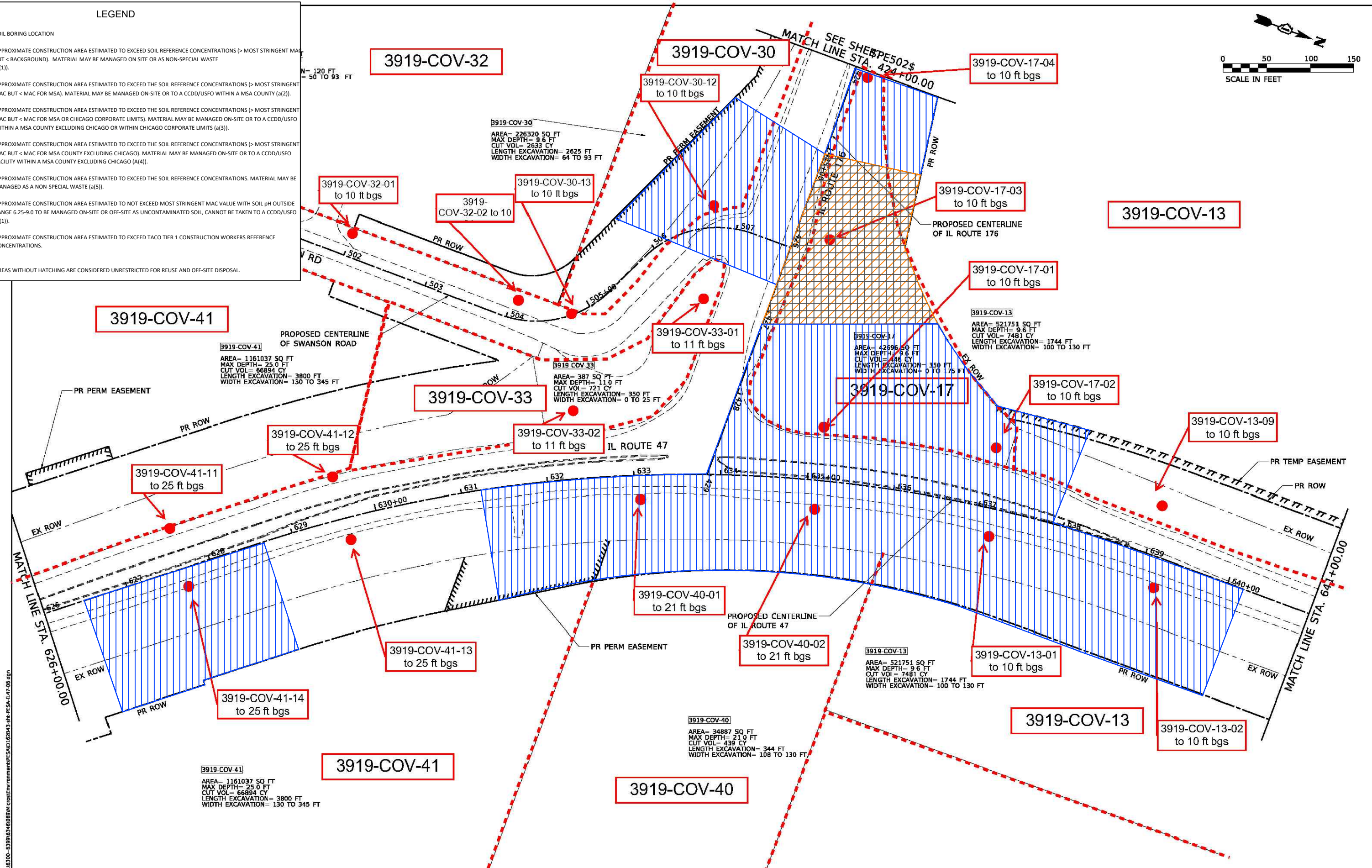
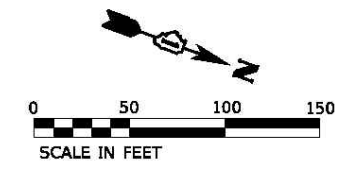
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	105-N-2(15)	MCHENRY	16	8PE1054

CONTRACT NO. 62B43
 ILLINOIS FED. AID PROJECT

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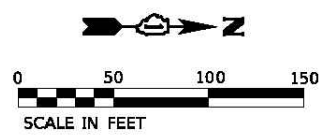
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- SOIL BORING LOCATION
 - APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED SOIL REFERENCE CONCENTRATIONS (> MOST STRINGENT MAC BUT < BACKGROUND). MATERIAL MAY BE MANAGED ON SITE OR AS NON-SPECIAL WASTE (a(1)).
 - APPROXIMATE CONSTRUCTION AREA ESTIMATED 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 HATCHING ARE CONSIDERED UNRESTRICTED FOR REUSE AND OFF-SITE DISPOSAL.



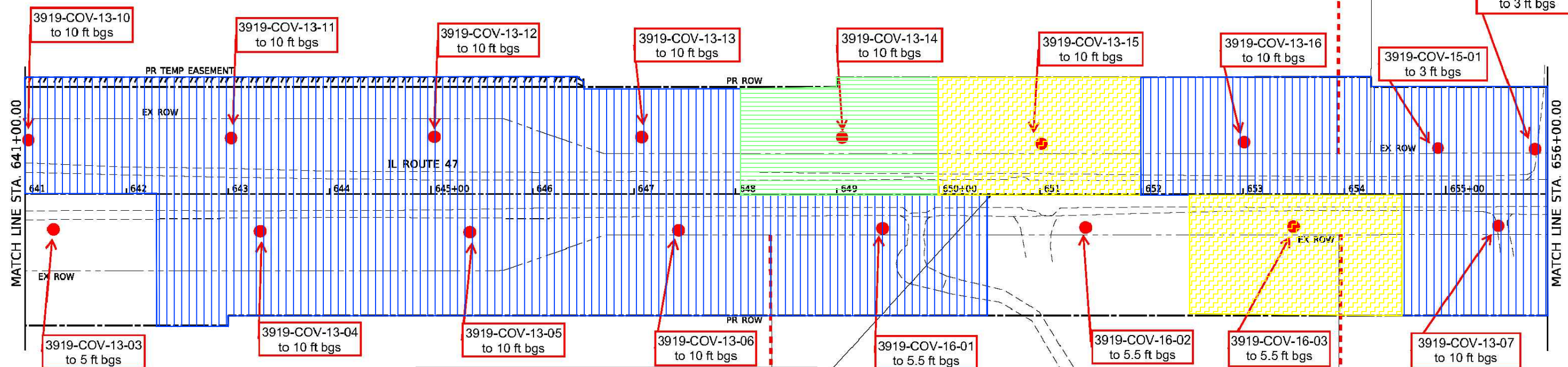
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 STRAND ASSOCIATES
 1170 SOUTH HOBOLT ROAD
 JOLIET, ILLINOIS 60431
 (815) 744-4200

	USER NAME = StevenB	DESIGNED - MAG	REVISED -	Figure 4-1.6 Extent of Potentially Impacted Soil Huff & Huff, Inc. 199-014 WO #5	IL ROUTE 47 PESA RESPONSE EXHIBIT	F.A.P. RTE. 326	SECTION 105-N-2(15)	COUNTY MCHENRY	TOTAL SHEETS 16	SHEET NO. 16
	PLOT SCALE = 100 0000' / in.	CHECKED - SJG	REVISED -			SCALE: 1" = 50'	SHEET 6 OF 8 SHEETS	STA. 626+00.00 TO STA. 641+00.00	ILLINOIS FED. AID PROJECT	CONTRACT NO. 62B43
PLOT DATE = 4/1/2021	DATE = 4/20/2021	REVISED -	REVISED -	IL ROUTE 47 PESA RESPONSE EXHIBIT						



3919-COV-13

3919-COV-15



3919-COV-13
 AREA= 521751 SQ FT
 MAX DEPTH= 9.6 FT
 CUT VOL= 7481 CY
 LENGTH EXCAVATION= 1744 FT
 WIDTH EXCAVATION= 100 TO 130 FT

3919-COV-13
 AREA= 521751 SQ FT
 MAX DEPTH= 9.6 FT
 CUT VOL= 7481 CY
 LENGTH EXCAVATION= 1744 FT
 WIDTH EXCAVATION= 100 TO 130 FT

3919-COV-15
 AREA= 21000 SQ FT
 MAX DEPTH= 2.9 FT
 CUT VOL= 283 CY
 LENGTH EXCAVATION= 200 FT
 WIDTH EXCAVATION= 105 FT

3919-COV-16
 AREA= 65321 SQ FT
 MAX DEPTH= 5.4 FT
 CUT VOL= 456 CY
 LENGTH EXCAVATION= 560 FT
 WIDTH EXCAVATION= 115 TO 120 FT

3919-COV-13

3919-COV-16

3919-COV-13

LEGEND

- SOIL BORING LOCATION
- [Hatched Area] 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)).
- [Blue Hatched Area] 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)).
- [Green Hatched Area] 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)).
- [Pink Hatched Area] 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)).
- [Orange Hatched Area] APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS. MATERIAL MAY BE MANAGED AS A NON-SPECIAL WASTE (a(5)).
- [Purple Hatched Area] 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)).
- [White Hatched Area] 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.

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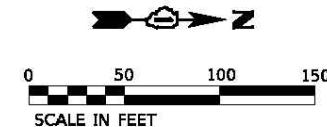


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PLOT DATE = 4/1/2021	CHECKED - SJG	REVISED -
	DATE - 4/20/2021	REVISED -

Figure 4-1.7 Extent of Potentially Impacted Soil
 Huff & Huff, Inc. 199-014 WO #5

SCALE: 1" = 50'	SHEET 7 OF 8 SHEETS	STA. 641+00.00 TO STA. 656+00.00
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F.A.P. RTE. 326	SECTION 105-N-2(15)	COUNTY MCHENRY	TOTAL SHEETS 16	SHEET NO. 16
CONTRACT NO. 62B43			ILLINOIS FED. AID PROJECT	



3919-COV-15

3919-COV-14

3919-COV-12

3919-COV-7

3919-COV-14
 AREA= 16801 SQ FT
 MAX DEPTH= 6.5 FT
 CUT VOL= 434 CY
 LENGTH EXCAVATION= 160 FT
 WIDTH EXCAVATION= 105 FT

3919-COV-12
 AREA= 15200 SQ FT
 MAX DEPTH= 6.4 FT
 CUT VOL= 178 CY
 LENGTH EXCAVATION= 160 FT
 WIDTH EXCAVATION= 95 FT

3919-COV-7
 AREA= 48443 SQ FT
 MAX DEPTH= 1.8 FT
 CUT VOL= 427 CY
 LENGTH EXCAVATION= 604 FT
 WIDTH EXCAVATION= 70 TO 95 FT

3919-COV-14-01
 to 6.5 ft bgs
 pH = 9.04 / 9.14

3919-COV-14-02
 to 6.5 ft bgs

3919-COV-14-03
 to 6.5 ft bgs

3919-COV-12-01
 to 5 ft bgs

3919-COV-7-01
 to 2 ft bgs

3919-COV-7-02
 to 2 ft bgs

3919-COV-7-03
 to 2 ft bgs

3919-COV-7-04
 to 2 ft bgs

3919-COV-13-08
 to 10 ft bgs

3919-COV-11-01
 to 6.5 ft bgs

3919-COV-11-02
 to 6.5 ft bgs

3919-COV-10-01
 to 1 ft bgs

3919-COV-10-02
 to 1 ft bgs

3919-COV-9-01
 to 1 ft bgs

3919-COV-9-02
 to 1 ft bgs

3919-COV-13

3919-COV-11

3919-COV-9

3919-COV-8

3919-COV-13
 AREA= 521751 SQ FT
 MAX DEPTH= 9.6 FT
 CUT VOL= 7481 CY
 LENGTH EXCAVATION= 1744 FT
 WIDTH EXCAVATION= 100 TO 130 FT

3919-COV-11
 AREA= 30707 SQ FT
 MAX DEPTH= 6.4 FT
 CUT VOL= 460 CY
 LENGTH EXCAVATION= 329 FT
 WIDTH EXCAVATION= 63 TO 101 FT

3919-COV-9
 PSI REQUIRED
 AREA= 1500 SQ FT
 MAX DEPTH= 1.0 FT
 CUT VOL= 14 CY
 LENGTH EXCAVATION= 328 FT
 WIDTH EXCAVATION= 6 FT

3919-COV-8
 AREA= 0 SQ FT
 MAX DEPTH= 0 FT
 CUT VOL= 0 CY
 LENGTH EXCAVATION= 0 FT
 WIDTH EXCAVATION= 0 FT

LEGEND

- SOIL BORING LOCATION
- [Hatched Box] 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)).
- [Blue Hatched Box] 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)).
- [Green Hatched Box] 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)).
- [Pink Hatched Box] 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)).
- [Orange Hatched Box] APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS. MATERIAL MAY BE MANAGED AS A NON-SPECIAL WASTE (a(5)).
- [Purple Hatched Box] 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)).
- [Grid Hatched Box] 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.

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	DATE = 4/20/2021	REVISED =

Figure 4-1.8 Extent of Potentially Impacted Soil
 Huff & Huff, Inc. 199-014 WO #5

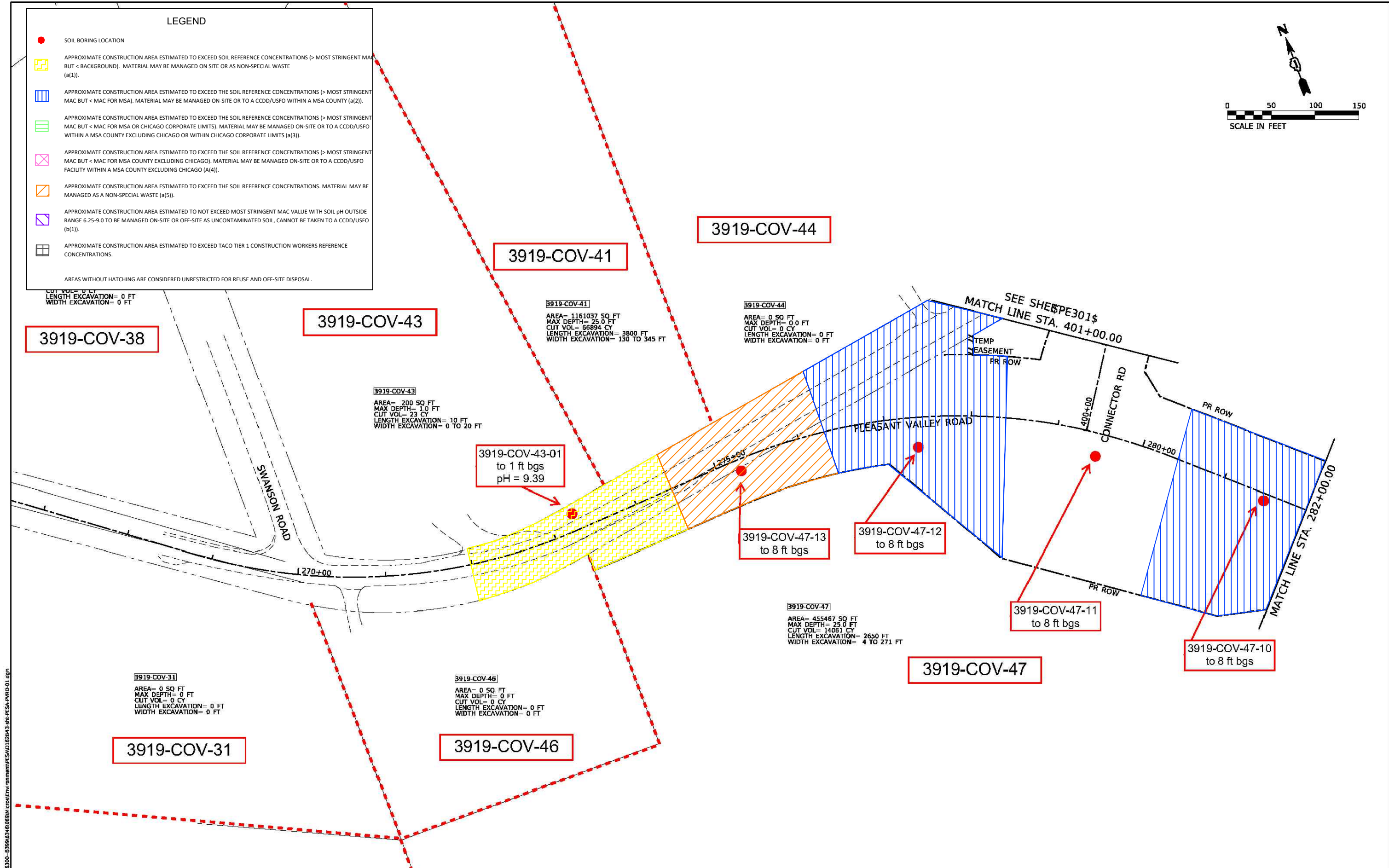
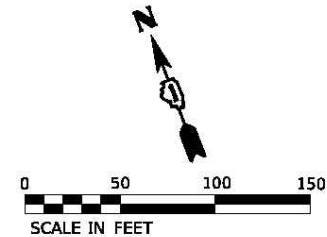
IL ROUTE 47	
PESA RESPONSE EXHIBIT	
SCALE: 1" = 50'	SHEET 8 OF 8 SHEETS
STA 656+00.00	TO STA. 671+00.00

F.A.P. RTE. 326	SECTION 105-N-2(15)	COUNTY MCHENRY	TOTAL SHEETS 16	SHEET NO. 8
CONTRACT NO. 62B43				
ILLINOIS FED. AID PROJECT				

LEGEND

- SOIL BORING LOCATION
- 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)).
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- 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.



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1170 SOUTH HOUBOLT ROAD
JOLET, ILLINOIS 60431
(815) 744-4200

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PLOT SCALE = 100.0000' / in.	DRAWN - DJW	REVISED -
PLOT DATE = 4/20/2021	CHECKED - SJG	REVISED -
	DATE - 4/20/2021	REVISED -

Figure 4-1.9 Extent of Potentially Impacted Soil
Huff & Huff, Inc. 199-014 WO #5

PLEASANT VALLEY ROAD
PESA RESPONSE EXHIBIT

SCALE: 1" = 50'
SHEET 1 OF 2 SHEETS STA. 287+00.00 TO STA. 282+00.00

F.A.P. RTE 326	SECTION 105-N-2(15)	COUNTY MCHENRY	TOTAL SHEETS 16	SHEET NO. 16PE2015
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62B43	

LEGEND

- SOIL BORING LOCATION
- 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)).
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- 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 HATCHING ARE CONSIDERED UNRESTRICTED FOR REUSE AND OFF-SITE DISPOSAL.

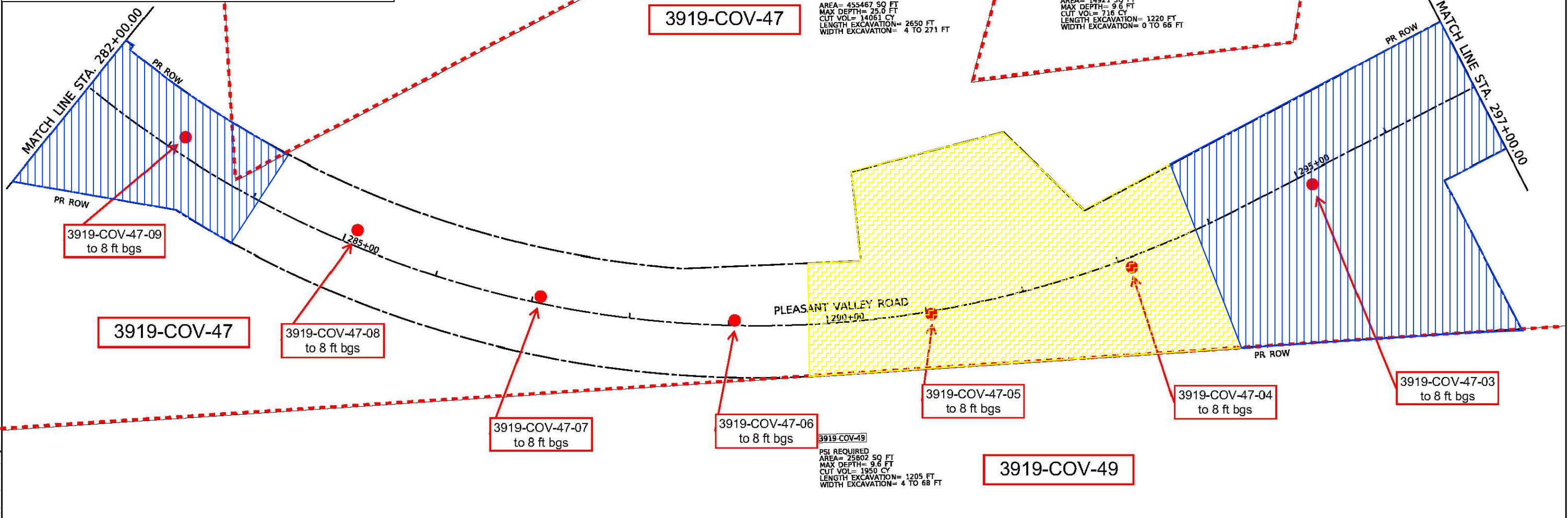
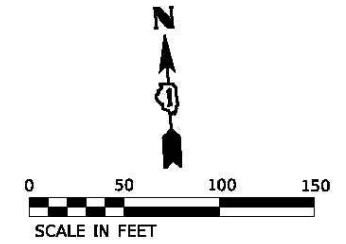


Figure 4-1.10 Extent of Potentially Impacted Soil
Huff & Huff, Inc. 199-014 WO #5

PLEASANT VALLEY ROAD
PESA RESPONSE EXHIBIT

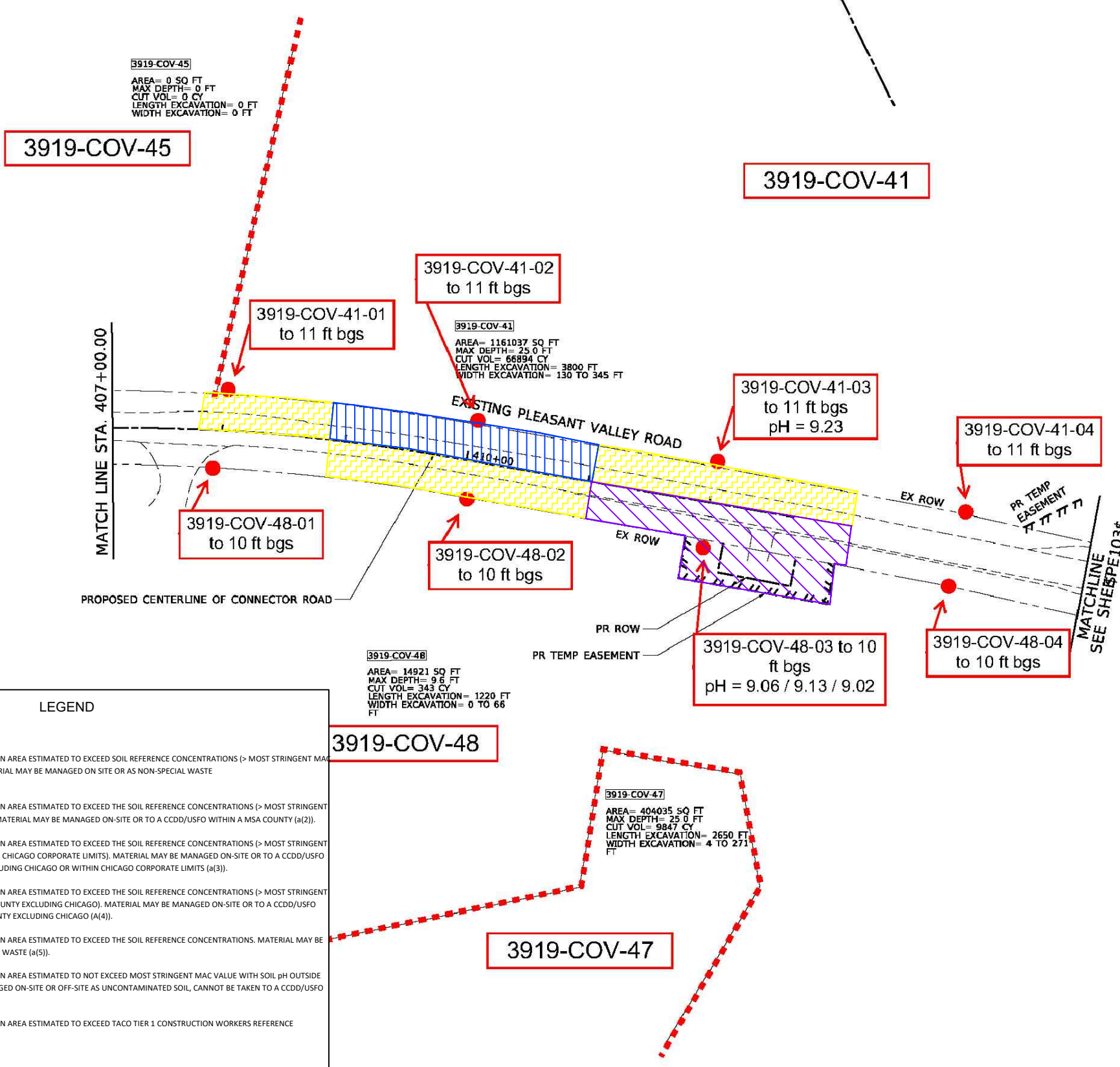
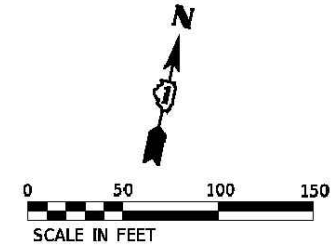
STRAND ASSOCIATES
1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200

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PLOT DATE = 4/1/2021	CHECKED - SJG	REVISED -
	DATE - 4/20/2021	REVISED -

SCALE: 1" = 50'	SHEET 2 OF 2 SHEETS	STA 282+00.00 TO STA 297+00.00
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F.A.P. RTE 326	SECTION 105-N-2(15)	COUNTY MCHENRY	TOTAL SHEETS 16	SHEET NO. PPEZ029
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62B43	

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3919-COV-45
 AREA= 0 SQ FT
 MAX DEPTH= 0 FT
 CUT VOL= 0 CY
 LENGTH EXCAVATION= 0 FT
 WIDTH EXCAVATION= 0 FT

3919-COV-45

3919-COV-41

3919-COV-41-02
 to 11 ft bgs

3919-COV-41-01
 to 11 ft bgs

3919-COV-41
 AREA= 1161037 SQ FT
 MAX DEPTH= 25.0 FT
 CUT VOL= 66894 CY
 LENGTH EXCAVATION= 3800 FT
 WIDTH EXCAVATION= 130 TO 345 FT

3919-COV-41-03
 to 11 ft bgs
 pH = 9.23

3919-COV-41-04
 to 11 ft bgs

3919-COV-48-01
 to 10 ft bgs

3919-COV-48-02
 to 10 ft bgs

3919-COV-48-03
 to 10 ft bgs
 pH = 9.06 / 9.13 / 9.02

3919-COV-48-04
 to 10 ft bgs

3919-COV-48
 AREA= 14921 SQ FT
 MAX DEPTH= 9.6 FT
 CUT VOL= 343 CY
 LENGTH EXCAVATION= 1220 FT
 WIDTH EXCAVATION= 0 TO 66 FT

3919-COV-48

3919-COV-47
 AREA= 404035 SQ FT
 MAX DEPTH= 25.0 FT
 CUT VOL= 9847 CY
 LENGTH EXCAVATION= 2650 FT
 WIDTH EXCAVATION= 4 TO 271 FT

3919-COV-47

LEGEND	
	SOIL BORING LOCATION
	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 HATCHING ARE CONSIDERED UNRESTRICTED FOR REUSE AND OFF-SITE DISPOSAL.	

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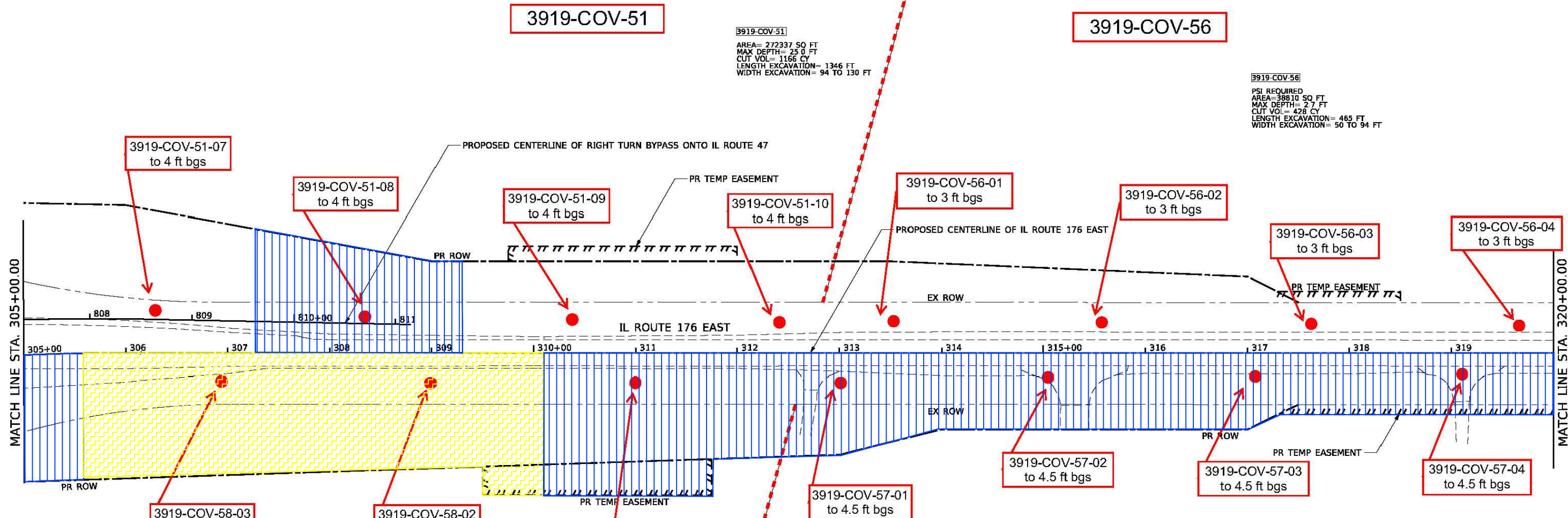
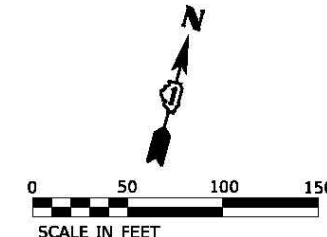
STRAND ASSOCIATES*
 1170 SOUTH HOBOLT ROAD
 JOLIET, ILLINOIS 60431
 (815) 744-4200

USER NAME = StevenB	DESIGNED - MAG	REVISED -
PLOT SCALE = 100 0000' / in.	DRAWN - DJW	REVISED -
PLOT DATE = 11/8/2021	CHECKED - SJG	REVISED -
	DATE - 10/29/2021	REVISED -

Figure 4-1.11 Extent of Potentially Impacted Soil
 Huff & Huff, Inc. 199-014 WO #5

CONNECTOR ROAD
PESA RESPONSE EXHIBIT
 SCALE: 1" = 50'
 SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	105-N-2(15)	MCHENRY	16	16
CONTRACT NO. 62B43				
ILLINOIS FED. AID PROJECT				



3919-COV-51
 AREA= 272337 SQ FT
 MAX DEPTH= 25.0 FT
 CUT VOL= 1166 CY
 LENGTH EXCAVATION= 1346 FT
 WIDTH EXCAVATION= 94 TO 130 FT

3919-COV-56
 PSI REQUIRED
 AREA= 38810 SQ FT
 MAX DEPTH= 2.7 FT
 CUT VOL= 428 CY
 LENGTH EXCAVATION= 465 FT
 WIDTH EXCAVATION= 50 TO 94 FT

3919-COV-58
 PSI REQUIRED
 AREA= 101405 SQ FT
 MAX DEPTH= 25.0 FT
 CUT VOL= 4310 CY
 LENGTH EXCAVATION= 1123 FT
 WIDTH EXCAVATION= 0 TO 73 FT

LEGEND	
	SOIL BORING LOCATION
	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 HATCHING ARE CONSIDERED UNRESTRICTED FOR REUSE AND OFF-SITE DISPOSAL.	

3919-COV-57

3919-COV-52

3919-COV-58-03
 to 10 ft bgs

3919-COV-58-02
 to 25 ft bgs
 pH = 9.11 / 9.26

3919-COV-58-01
 to 25 ft bgs

3919-COV-57-01
 to 4.5 ft bgs

3919-COV-57-02
 to 4.5 ft bgs

3919-COV-57-03
 to 4.5 ft bgs

3919-COV-57-04
 to 4.5 ft bgs

3919-COV-56-01
 to 3 ft bgs

3919-COV-56-02
 to 3 ft bgs

3919-COV-56-03
 to 3 ft bgs

3919-COV-56-04
 to 3 ft bgs

3919-COV-51-10
 to 4 ft bgs

3919-COV-51-09
 to 4 ft bgs

3919-COV-51-08
 to 4 ft bgs

3919-COV-51-07
 to 4 ft bgs

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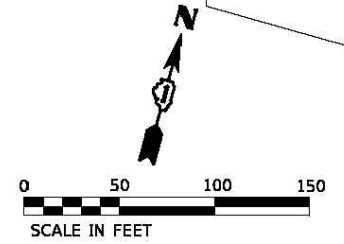
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PLOT DATE	= 4/1/2021				

Figure 4-1.12 Extent of Potentially Impacted Soil
 Huff & Huff, Inc. 199-014 WO #5

IL ROUTE 176 (EAST)
PESA RESPONSE EXHIBIT

SCALE: 1" = 50' SHEET 1 OF 2 SHEETS STA. 305+00.00 TO STA. 320+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	105-N-2(15)	MCHENRY	16	#PE4018
CONTRACT NO. 62B43			ILLINOIS FED. AID PROJECT	



3919-COV-56

3919-COV-56
 PSI REQUIRED
 AREA= 38810 SQ. FT.
 MAX DEPTH= 2.7 FT
 CUT VOL= 428 CY
 LENGTH EXCAVATION= 465 FT
 WIDTH EXCAVATION= 50 TO 94 FT

3919-COV-56-06
 to 3 ft bgs

3919-COV-56-05
 to 3 ft bgs

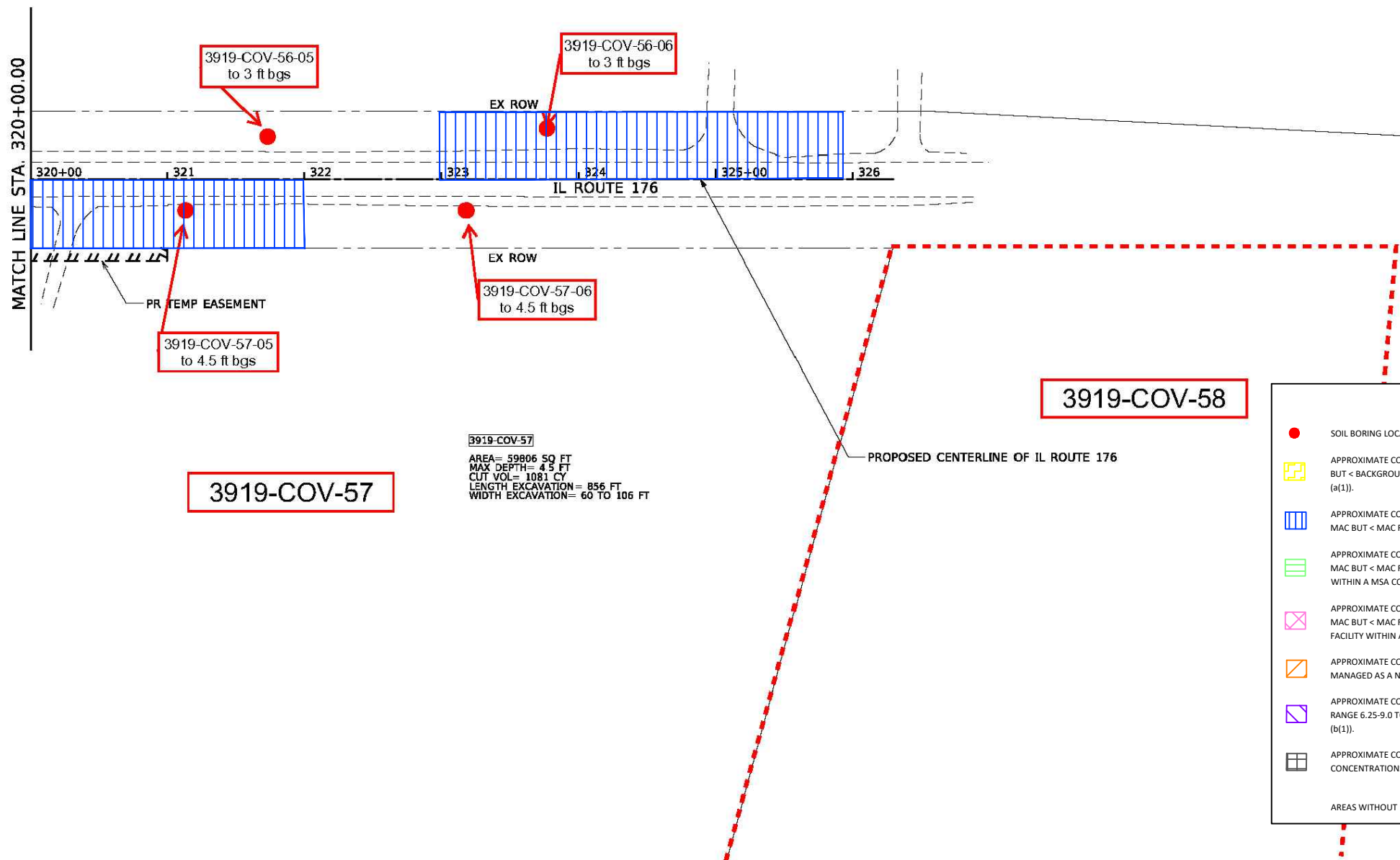
3919-COV-57-06
 to 4.5 ft bgs

3919-COV-57-05
 to 4.5 ft bgs

3919-COV-57

3919-COV-57
 AREA= 59806 SQ. FT.
 MAX DEPTH= 4.5 FT
 CUT VOL= 1081 CY
 LENGTH EXCAVATION= 856 FT
 WIDTH EXCAVATION= 60 TO 106 FT

3919-COV-58



LEGEND	
●	SOIL BORING LOCATION
	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 HATCHING ARE CONSIDERED UNRESTRICTED FOR REUSE AND OFF-SITE DISPOSAL.	

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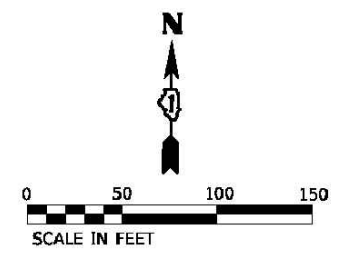


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PLOT DATE = 4/1/2021	CHECKED - SJG	REVISED -
	DATE - 4/20/2021	REVISED -

Figure 4-1.13 Extent of Potentially Impacted Soil
 Huff & Huff, Inc. 199-014 WO #5

IL ROUTE 176 (EAST)	
PESA RESPONSE EXHIBIT	
SCALE: 1"=50'	SHEET 2 OF 2 SHEETS
STA. 320+00.00	TO STA. 326+30.37

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	105-N-2(15)	MCHENRY	16	5PE513
CONTRACT NO. 62B43				
ILLINOIS FED. AID PROJECT				

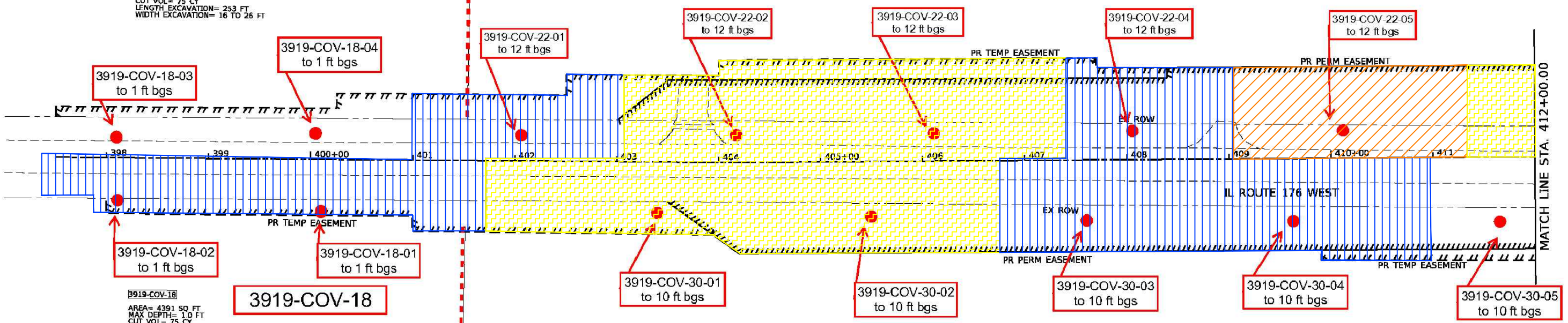


3919-COV-18

3919-COV-22

3919-COV-18
 AREA= 4391 SQ FT
 MAX DEPTH= 1.0 FT
 CUT VOL= 75 CY
 LENGTH EXCAVATION= 253 FT
 WIDTH EXCAVATION= 16 TO 26 FT

3919-COV-22
 AREA= 143334 SQ FT
 MAX DEPTH= 11.7 FT
 CUT VOL= 9959 CY
 LENGTH EXCAVATION= 1250 FT
 WIDTH EXCAVATION= 85 TO 130 FT



3919-COV-18
 AREA= 4391 SQ FT
 MAX DEPTH= 1.0 FT
 CUT VOL= 75 CY
 LENGTH EXCAVATION= 253 FT

3919-COV-30
 AREA= 226320 SQ FT
 MAX DEPTH= 9.6 FT
 CUT VOL= 2633 CY
 LENGTH EXCAVATION= 2625 FT
 WIDTH EXCAVATION= 64 TO 93 FT

LEGEND

- SOIL BORING LOCATION
- [Hatched Box] 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)).
- [Blue Hatched Box] 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)).
- [Green Hatched Box] 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)).
- [Purple Hatched Box] 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)).
- [Orange Hatched Box] APPROXIMATE CONSTRUCTION AREA ESTIMATED TO EXCEED THE SOIL REFERENCE CONCENTRATIONS. MATERIAL MAY BE MANAGED AS A NON-SPECIAL WASTE (a(5)).
- [Pink Hatched Box] 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)).
- [White Box with Border] 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 4-1.14 Extent of Potentially Impacted Soil
 Huff & Huff, Inc. 199-014 WO #5

IL ROUTE 176 (WEST)
PESA RESPONSE EXHIBIT
 SCALE: 1" = 50'
 SHEET 1 OF 2 SHEETS STA. 400+00.00 TO STA. 412+00.00

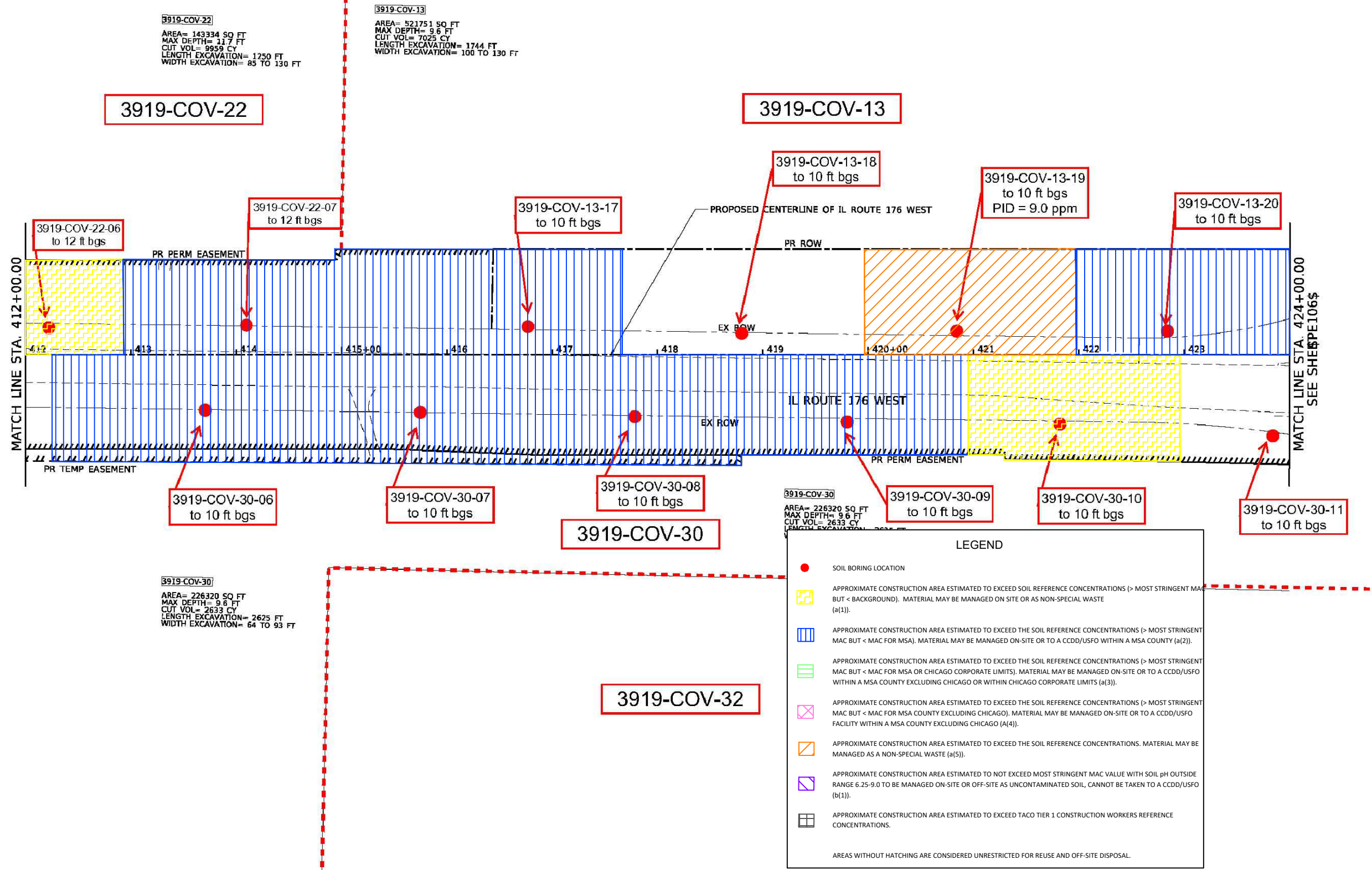
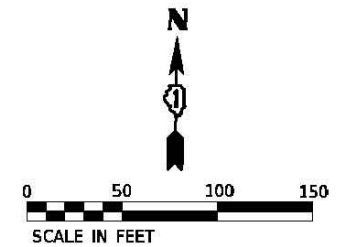
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	105-N-2(15)	MCHENRY	16	16

CONTRACT NO. 62B43
 ILLINOIS FED. AID PROJECT

STRAND ASSOCIATES
 1170 SOUTH HOBOLT ROAD
 JOLETT, IL 60431
 (815) 744-4200

USER NAME	= StevenB	DESIGNED	- MAG	REVISED	-
DRAWN	- DJW	CHECKED	- SJG	REVISED	-
DATE	- 4/20/2021	REVISIONS	-		

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LEGEND

- SOIL BORING LOCATION
- 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 HATCHING ARE CONSIDERED UNRESTRICTED FOR REUSE AND OFF-SITE DISPOSAL.

USER NAME - StevenB	DESIGNED - MAG	REVISED -
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PLOT DATE = 4/12/2021	CHECKED - SJG	REVISED -
	DATE - 4/20/2021	REVISED -

Figure 4-1.15 Extent of Potentially Impacted Soil
Huff & Huff, Inc. 199-014 WO #5

IL ROUTE 176 (WEST)
PESA RESPONSE EXHIBIT

SCALE: 1" = 50' SHEET 2 OF 2 SHEETS STA 412+00.00 TO STA 424+00.00

F.A.P. RTE 326	SECTION 105-N-2(15)	COUNTY MCHENRY	TOTAL SHEETS 16	SHEET NO. 16
CONTRACT NO. 62B43			ILLINOIS FED. AID PROJECT	

LPC-663 TABLE (Page 1 of 31)
 UNRESTRICTED
 IDOT, District One
 IL 47/IL 176 at Pleasant Valley Road
 Lakewood, McHenry County, Illinois
 BDE Sequence No.: 18785B
 PTB: 199-014/HH-2, Work Order No.: 5

Boring ID	Soil Reference Concentrations ^{a/}	Soil Remediation Objective for Construction Workers ^{b/}		Soil Remediation Objective for Residential Exposure ^{c/}		3919-COV-13-03	3919-COV-13-09	3919-COV-13-09	3919-COV-13-18	
		Sample Depth, ft	Sample Date	Excavation Area(s) [ISGS Site No.(s)]	Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	(0-5)	(0-5)
4/1/2022	4/6/2022								4/6/2022	3/29/2022
Parameter										
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.71	7.45	8.62	8.08	
PID Readings (ppm)						0.0	0.5	9.0	0.0	
VOCs, mg/kg	NO EXCEEDANCES									
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<0.2	<0.2	
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<0.005	<0.005	
SVOCs, mg/kg	NO EXCEEDANCES									
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33	
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33	
Pyrene	2,300	61,000	61,000	2,300	---	<0.33	<0.33	<0.33	<0.33	
Total Metals, mg/kg										
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0	
Arsenic	11.3 / 13	61	25,000	---	750	2.4	4.4	5	3.5	
Barium	1,500	14,000	870,000	5,500	690,000	40.3	59.6	51.6	87.3	
Beryllium	22	410	44,000	160	1,300	<0.5	<0.5	<0.5	0.5	
Cadmium	5.2	200	59,000	78	1,800	<0.5	1.5	1.7	1	
Calcium	---	---	---	---	---	78100	70500	79800	43700	
Chromium	21	4100	690	230	270	12	16.6	16.4	18	
Cobalt	20	12000	---	4,700	---	5.1	7.1	10.6	9.1	
Copper	2,900	8,200	---	2,900	---	11.4	20	21.5	21.5	
Iron	15,000 / 15,900	---	---	---	---	11900	15300	17700	19500	
Lead	107	700	---	400	---	5.3	49.4	10.3	50.9	
Magnesium	325,000	730,000	---	325,000	---	36300	39600	42800	23500	
Manganese	630 / 636	4100	8,700	1,600	---	285	386	842	588	
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05	
Nickel	100	4100	440,000	1,600	13,000	12.8	18.1	28.5	19.8	
Potassium	---	---	---	---	---	1290	1980	2280	1540	
Selenium	1.3	1000	---	390	---	<1.0	<1.0	<1.0	<1.0	
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<0.2	
Sodium	---	---	---	---	---	655	865	454	1690	
Thallium	2.6	160	---	6.3	---	<1.0	<1.0	<1.0	<1.0	
Vanadium	550	1400	---	550	---	16.4	25.6	21.7	32.5	
Zinc	5,100	61,000	---	23,000	---	27.6	46.8	41.5	51.6	
TCLP Metals, mg/L	Class I Groundwater ^{d/}									
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010	
Barium			2			<1.0	<1.0	<1.0	<1.0	
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	
Chromium			0.1			<0.005	<0.005	<0.005	<0.005	
Cobalt			1			<0.1	<0.1	<0.1	<0.1	
Copper			0.65			<0.1	<0.1	<0.1	<0.1	
Iron			5			<0.1	0.4	<0.1	1.2	
Lead			0.0075			<0.005	0.014	<0.005	<0.005	
Manganese			0.15			0.5	7.7	2.3	7.9	
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	
Silver			0.05			<0.005	<0.005	<0.005	<0.005	
Zinc			5			<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	
Barium			2			<1.0	<1.0	<1.0	<1.0	
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	
Chromium			0.1			0.032	0.008	0.006	0.014	
Cobalt			1			<0.1	<0.1	<0.1	<0.1	
Copper			0.65			0.024	0.012	0.005	0.017	
Iron			5			28.7	6	3.2	10.8	
Lead			0.0075			0.011	<0.005	<0.005	<0.005	
Manganese			0.15			0.1	<0.1	<0.1	0.1	
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	
Silver			0.05			<0.005	<0.005	<0.005	<0.005	
Zinc			5			<0.1	<0.1	<0.1	<0.1	

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

^{a/} Soil reference concentrations from MAC table. Background values for MSA counties are included as applicable.
 Organic Soil Reference Concentrations (XX.XX / XX.XX / XX.XX) Include the Most Stringent Values from the MAC Table / The Chicago Corporate Limit / and The MSA County Excluding Chicago Values From the MAC Table.
 Inorganic Soil Reference Concentrations (xx.xx / xx.xx) Include the Most Stringent values from the MAC Table / and the MSA County Value From the MAC Table as Applicable.


^{b/} Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

^{c/} Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

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

When comparing results to the Soil Remediation Objectives, IDOT compares to the most stringent of the ingestion or inhalation exposure route value.

Bold indicates concentration detected

 Shaded values indicate concentration exceeds reference concentration

LPC-663 TABLE (Page 2 of 31)
 UNRESTRICTED
 IDOT, District One
 IL 47/IL 176 at Pleasant Valley Road
 Lakewood, McHenry County, Illinois
 BDE Sequence No.: 18785B
 PTB: 199-014/HH-2, Work Order No.: 5

Boring ID	Soil Reference Concentrations ^{a/}	Soil Remediation Objective for Construction Workers ^{b/}		Soil Remediation Objective for Residential Exposure ^{c/}		3919-COV-13-18	3919-COV-16-02	3919-COV-18-03	3919-COV-18-04
		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	(5-10)	(0-5.5)	(0-1)	(0-1)
Sample Depth, ft	Sample Date					3/29/2022	4/1/2022	3/29/2022	3/29/2022
Excavation Area(s) [ISGS Site No.(s)]						3919-COV-13	3919-COV-16	3919-COV-18	3919-COV-18
Parameter									
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.45	7.84	8.97	8.92
PID Readings (ppm)						0.0	0.0	0.0	0.0
VOCs, mg/kg	NO EXCEEDANCES								
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<0.2	<0.2
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<0.005	<0.005
SVOCs, mg/kg	NO EXCEEDANCES								
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	1.61	<0.33
Phenanthrene	---	---	---	---	---	<0.33	<0.33	0.957	<0.33
Pyrene	2,300	61,000	61,000	2,300	---	<0.33	<0.33	1.37	<0.33
Total Metals, mg/kg									
Antimony	5	82	---	31	---	1	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	3.1	1.8	1.7	4.1
Barium	1,500	14,000	870,000	5,500	690,000	25.4	47.1	50	36.3
Beryllium	22	410	44,000	160	1,300	<0.5	<0.5	<0.5	<0.5
Cadmium	5.2	200	59,000	78	1,800	1.1	<0.5	<0.5	<0.5
Calcium	---	---	---	---	---	79800	15500	131000	89400
Chromium	21	4100	690	230	270	15.5	8.2	21.9	12.9
Cobalt	20	12000	---	4,700	---	5.1	5.7	2.8	7
Copper	2,900	8,200	---	2,900	---	20.6	9.4	23.3	16.6
Iron	15,000 / 15,900	---	---	---	---	18400	8450	10300	15900
Lead	107	700	---	400	---	26.8	15.8	56.9	7.6
Magnesium	325,000	730,000	---	325,000	---	41700	8950	64900	42000
Manganese	630 / 636	4100	8,700	1,600	---	288	227	483	368
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	19	9	9.1	19.1
Potassium	---	---	---	---	---	1730	685	452	1160
Selenium	1.3	1000	---	390	---	<1.0	<1.0	<1.0	<1.0
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<0.2
Sodium	---	---	---	---	---	362	1180	495	697
Thallium	2.6	160	---	6.3	---	<1.0	<1.0	<1.0	<1.0
Vanadium	550	1400	---	550	---	23	15.5	17.8	19.2
Zinc	5,100	61,000	---	23,000	---	82	28.1	63	30.2
TCLP Metals, mg/L	Class I Groundwater ^{d/}								
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<0.005	<0.005	<0.005	<0.005
Cobalt			1			<0.1	<0.1	<0.1	<0.1
Copper			0.65			<0.1	<0.1	<0.1	<0.1
Iron			5			<0.1	<0.1	<0.1	0.3
Lead			0.0075			<0.005	<0.005	<0.005	<0.005
Manganese			0.15			0.9	0.2	1	2.7
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005
Zinc			5			<0.1	<0.1	0.2	<0.1
SPLP Metals, mg/L	Class I Groundwater ^{d/}								
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Chromium			0.1			0.01	0.011	0.01	0.01
Cobalt			1			<0.1	<0.1	<0.1	<0.1
Copper			0.65			0.007	0.011	0.014	0.01
Iron			5			6.4	7	4	8.4
Lead			0.0075			<0.005	0.013	0.022	<0.005
Manganese			0.15			<0.1	<0.1	<0.1	<0.1
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005
Zinc			5			<0.1	<0.1	<0.1	<0.1

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

^{a/} Soil reference concentrations from MAC table. Background values for MSA counties are included as applicable. Organic Soil Reference Concentrations (XX.XX / XX.XX / XX.XX) Include the Most Stringent Values from the MAC Table / The Chicago Corporate Limit / and The MSA County Excluding Chicago Values From the MAC Table. Inorganic Soil Reference Concentrations (xx.xx / xx.xx) Include the Most Stringent values from the MAC Table / and the MSA County Value From the MAC Table as Applicable.


^{b/} Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

^{c/} Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

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

When comparing results to the Soil Remediation Objectives, IDOT compares to the most stringent of the ingestion or inhalation exposure route value.

Bold indicates concentration detected

 Shaded values indicate concentration exceeds reference concentration

LPC-663 TABLE (Page 3 of 31)
 UNRESTRICTED
 IDOT, District One
 IL 47/IL 176 at Pleasant Valley Road
 Lakewood, McHenry County, Illinois
 BDE Sequence No.: 18785B
 PTB: 199-014/HH-2, Work Order No.: 5

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/}		3919-COV-30-05	3919-COV-30-05	3919-COV-30-11	3919-COV-30-11
						(0-5)	(5-10)	(0-5)	(5-10)
						3/29/2022	3/29/2022	4/1/2022	4/1/2022
		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	3919-COV-30	3919-COV-30	3919-COV-30	3919-COV-30
Parameter									
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	7.89	8.52	8.90	8.12
PID Readings (ppm)						0.0	0.0	0.0	0.0
VOCs, mg/kg	NO EXCEEDANCES								
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<0.2	<0.2
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<0.005	<0.005
SVOCs, mg/kg	NO EXCEEDANCES								
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Pyrene	2,300	61,000	61,000	2,300	---	<0.33	<0.33	<0.33	<0.33
Total Metals, mg/kg									
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	6.2	3.4	1.5	5.4
Barium	1,500	14,000	870,000	5,500	690,000	121	47.9	22.9	30.2
Beryllium	22	410	44,000	160	1,300	0.6	<0.5	<0.5	<0.5
Cadmium	5.2	200	59,000	78	1,800	<0.5	<0.5	<0.5	0.8
Calcium	---	---	---	---	---	45200	83400	65500	85800
Chromium	21	4100	690	230	270	20.3	17.2	8.9	16.9
Cobalt	20	12000	---	4,700	---	9.1	9.8	2.9	9
Copper	2,900	8,200	---	2,900	---	23.5	18.1	9.9	19.8
Iron	15,000 / 15,900	---	---	---	---	23300	18300	9890	18900
Lead	107	700	---	400	---	13.5	9.1	6.4	10
Magnesium	325,000	730,000	---	325,000	---	20700	44600	37000	44800
Manganese	630 / 636	4100	8,700	1,600	---	579	437	176	335
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	21.7	23.5	7.5	25.2
Potassium	---	---	---	---	---	1280	1780	569	2440
Selenium	1.3	1000	---	390	---	<1.0	<1.0	<1.0	<1.0
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<0.2
Sodium	---	---	---	---	---	1490	395	732	263
Thallium	2.6	160	---	6.3	---	<1.0	<1.0	<1.0	<1.0
Vanadium	550	1400	---	550	---	35.4	23.6	23.9	21.8
Zinc	5,100	61,000	---	23,000	---	51.8	42.5	19.7	46.7
TCLP Metals, mg/L	Class I Groundwater ^{d/}								
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<0.005	0.008	<0.005	<0.005
Cobalt			1			<0.1	<0.1	<0.1	<0.1
Copper			0.65			<0.1	<0.1	<0.1	<0.1
Iron			5			<0.1	0.2	<0.1	<0.1
Lead			0.0075			<0.005	<0.005	<0.005	<0.005
Manganese			0.15			5.8	1.5	1.5	1.2
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005
Zinc			5			<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
Barium			2			<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Chromium			0.1			0.016	0.027	0.017	<0.005
Cobalt			1			<0.1	<0.1	<0.1	<0.1
Copper			0.65			0.01	0.021	0.014	<0.005
Iron			5			13.4	25	13.8	3.7
Lead			0.0075			<0.005	0.008	<0.005	<0.005
Manganese			0.15			0.1	0.1	<0.1	<0.1
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005
Zinc			5			<0.1	<0.1	<0.1	<0.1

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

^{a/} Soil reference concentrations from MAC table. Background values for MSA counties are included as applicable. Organic Soil Reference Concentrations (XX.XX / XX.XX / XX.XX) Include the Most Stringent Values from the MAC Table / The Chicago Corporate Limit / and The MSA County Excluding Chicago Values From the MAC Table. Inorganic Soil Reference Concentrations (xx.xx / xx.xx) Include the Most Stringent values from the MAC Table / and the MSA County Value From the MAC Table as Applicable.

^{b/} Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

^{c/} Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

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

When comparing results to the Soil Remediation Objectives, IDOT compares to the most stringent of the ingestion or inhalation exposure route value.

Bold indicates concentration detected

Shaded values indicate concentration exceeds reference concentration

LPC-663 TABLE (Page 4 of 31)
 UNRESTRICTED
 IDOT, District One
 IL 47/IL 176 at Pleasant Valley Road
 Lakewood, McHenry County, Illinois
 BDE Sequence No.: 18785B
 PTB: 199-014/HH-2, Work Order No.: 5

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/}		Dup-06 (3919-COV-30-11)	3919-COV-30-13	3919-COV-30-13	3919-COV-32-01
						(5-10)	(0-5)	(5-10)	(0-5)
						4/1/2022	4/11/2022	4/11/2022	4/11/2022
		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	3919-COV-30	3919-COV-30	3919-COV-30	3919-COV-32
Parameter									
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.88	8.57	8.60	8.67
PID Readings (ppm)						0.0	0.0	0.0	0.0
VOCs, mg/kg	NO EXCEEDANCES								
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<0.2	<0.2
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<0.005	<0.005
SVOCs, mg/kg	NO EXCEEDANCES								
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Pyrene	2,300	61,000	61,000	2,300	---	<0.33	<0.33	<0.33	<0.33
Total Metals, mg/kg									
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	5.1	5.6	10.7	4.9
Barium	1,500	14,000	870,000	5,500	690,000	27.4	33.3	30.2	92.9
Beryllium	22	410	44,000	160	1,300	<0.5	<0.5	<0.5	0.6
Cadmium	5.2	200	59,000	78	1,800	0.8	<0.5	<0.5	<0.5
Calcium	---	---	---	---	---	75100	79100	82600	26800
Chromium	21	4100	690	230	270	14.6	15	16.6	16.3
Cobalt	20	12000	---	4,700	---	8.1	9.1	9.9	10.5
Copper	2,900	8,200	---	2,900	---	18.6	21	20.6	41.3
Iron	15,000 / 15,900	---	---	---	---	16900	18700	22500	22200
Lead	107	700	---	400	---	9.5	10.6	11.4	16.7
Magnesium	325,000	730,000	---	325,000	---	39500	41700	43100	16900
Manganese	630 / 636	4100	8,700	1,600	---	315	494	354	575
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	23	25.4	26.6	17.6
Potassium	---	---	---	---	---	1870	1760	2220	1400
Selenium	1.3	1000	---	390	---	<1.0	<1.0	<1.0	<1.0
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<0.2
Sodium	---	---	---	---	---	221	311	331	976
Thallium	2.6	160	---	6.3	---	<1.0	<1.0	<1.0	<1.0
Vanadium	550	1400	---	550	---	19	20.7	22.1	40.8
Zinc	5,100	61,000	---	23,000	---	42	40.7	43.7	51
TCLP Metals, mg/L	Class I Groundwater ^{d/}								
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<0.005	<0.005	<0.005	<0.005
Cobalt			1			<0.1	<0.1	<0.1	<0.1
Copper			0.65			<0.1	<0.1	<0.1	<0.1
Iron			5			<0.1	<0.1	<0.1	<0.1
Lead			0.0075			<0.005	<0.005	<0.005	<0.005
Manganese			0.15			1.3	0.5	1.4	0.4
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005
Zinc			5			<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
Barium			2			<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Chromium			0.1			0.005	<0.005	0.006	0.009
Cobalt			1			<0.1	<0.1	<0.1	<0.1
Copper			0.65			0.009	<0.005	0.006	0.006
Iron			5			3.5	2.3	5	6.4
Lead			0.0075			<0.005	<0.005	<0.005	<0.005
Manganese			0.15			<0.1	<0.1	<0.1	<0.1
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005
Zinc			5			<0.1	<0.1	<0.1	<0.1

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

^{a/} Soil reference concentrations from MAC table. Background values for MSA counties are included as applicable. Organic Soil Reference Concentrations (XX.XX / XX.XX / XX.XX) Include the Most Stringent Values from the MAC Table / The Chicago Corporate Limit / and The MSA County Excluding Chicago Values From the MAC Table. Inorganic Soil Reference Concentrations (xx.xx / xx.xx) Include the Most Stringent values from the MAC Table / and the MSA County Value From the MAC Table as Applicable.


^{b/} Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

^{c/} Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

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

When comparing results to the Soil Remediation Objectives, IDOT compares to the most stringent of the ingestion or inhalation exposure route value.

Bold indicates concentration detected

 Shaded values indicate concentration exceeds reference concentration

LPC-663 TABLE (Page 5 of 31)
 UNRESTRICTED
 IDOT, District One
 IL 47/IL 176 at Pleasant Valley Road
 Lakewood, McHenry County, Illinois
 BDE Sequence No.: 18785B
 PTB: 199-014/HH-2, Work Order No.: 5

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/}		3919-COV-32-01	Dup-20 (3919-COV-32-01)	3919-COV-32-02	3919-COV-32-02
						(5-10)	(5-10)	(0-5)	(5-10)
						4/11/2022	4/11/2022	4/11/2022	4/11/2022
		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	3919-COV-32	3919-COV-32	3919-COV-32	3919-COV-32
Parameter									
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.76	8.57	8.99	8.96
PID Readings (ppm)						0.0	0.0	0.0	0.0
VOCs, mg/kg		NO EXCEEDANCES							
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<0.2	<0.2
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<0.005	<0.005
SVOCs, mg/kg		NO EXCEEDANCES							
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Pyrene	2,300	61,000	61,000	2,300	---	<0.33	<0.33	<0.33	<0.33
Total Metals, mg/kg									
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	2.3	4	4.3	5.4
Barium	1,500	14,000	870,000	5,500	690,000	28.7	28.7	33.8	31.2
Beryllium	22	410	44,000	160	1,300	<0.5	<0.5	<0.5	<0.5
Cadmium	5.2	200	59,000	78	1,800	<0.5	<0.5	<0.5	<0.5
Calcium	---	---	---	---	---	79900	68100	112000	79400
Chromium	21	4100	690	230	270	16.2	13.8	14.2	13.6
Cobalt	20	12000	---	4,700	---	4.5	13.7	5.9	12.4
Copper	2,900	8,200	---	2,900	---	13.5	18	20.2	20.6
Iron	15,000 / 15,900	---	---	---	---	14600	15300	16900	20400
Lead	107	700	---	400	---	5.5	8.9	8.7	12.9
Magnesium	325,000	730,000	---	325,000	---	43500	36100	39900	42600
Manganese	630 / 636	4100	8,700	1,600	---	272	475	286	619
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	18.1	24.8	17.8	28.9
Potassium	---	---	---	---	---	2220	1820	1600	1670
Selenium	1.3	1000	---	390	---	<1.0	<1.0	<1.0	<1.0
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<0.2
Sodium	---	---	---	---	---	302	269	642	567
Thallium	2.6	160	---	6.3	---	<1.0	<1.0	<1.0	<1.0
Vanadium	550	1400	---	550	---	18.3	18.2	19.6	23.5
Zinc	5,100	61,000	---	23,000	---	35.6	34.8	34.1	48.2
TCLP Metals, mg/L		Class I Groundwater ^{d/}							
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<0.005	<0.005	<0.005	<0.005
Cobalt			1			<0.1	<0.1	<0.1	<0.1
Copper			0.65			<0.1	<0.1	<0.1	<0.1
Iron			5			<0.1	<0.1	<0.1	1.3
Lead			0.0075			<0.005	<0.005	<0.005	<0.005
Manganese			0.15			0.5	2.5	3.4	0.6
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	0.011	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005
Zinc			5			<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
Barium			2			<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Chromium			0.1			0.016	0.009	0.024	0.022
Cobalt			1			<0.1	<0.1	<0.1	<0.1
Copper			0.65			0.014	0.009	0.019	0.018
Iron			5			13.4	8.1	21.2	18
Lead			0.0075			<0.005	<0.005	0.008	0.007
Manganese			0.15			<0.1	<0.1	<0.1	<0.1
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005
Zinc			5			<0.1	<0.1	<0.1	<0.1

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

^{a/} Soil reference concentrations from MAC table. Background values for MSA counties are included as applicable. Organic Soil Reference Concentrations (XX.XX / XX.XX / XX.XX) Include the Most Stringent Values from the MAC Table / The Chicago Corporate Limit / and The MSA County Excluding Chicago Values From the MAC Table. Inorganic Soil Reference Concentrations (xx.xx / xx.xx) Include the Most Stringent values from the MAC Table / and the MSA County Value From the MAC Table as Applicable.


^{b/} Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

^{c/} Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

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

When comparing results to the Soil Remediation Objectives, IDOT compares to the most stringent of the ingestion or inhalation exposure route value.

Bold indicates concentration detected

 Shaded values indicate concentration exceeds reference concentration

LPC-663 TABLE (Page 6 of 31)
 UNRESTRICTED
 IDOT, District One
 IL 47/IL 176 at Pleasant Valley Road
 Lakewood, McHenry County, Illinois
 BDE Sequence No.: 18785B
 PTB: 199-014/HH-2, Work Order No.: 5

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/}		3919-COV-33-01	3919-COV-33-01	3919-COV-33-02	3919-COV-33-02
						(0-5)	(5-11)	(0-5)	(5-11)
						4/6/2022	4/6/2022	4/6/2022	4/6/2022
		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	3919-COV-33	3919-COV-33	3919-COV-33	3919-COV-33
Parameter									
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.63	8.44	8.49	8.64
PID Readings (ppm)						0.0	0.0	0.0	0.0
VOCs, mg/kg	NO EXCEEDANCES								
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<0.2	<0.2
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<0.005	<0.005
SVOCs, mg/kg	NO EXCEEDANCES								
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Pyrene	2,300	61,000	61,000	2,300	---	<0.33	<0.33	<0.33	<0.33
Total Metals, mg/kg									
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	4.3	5.6	4.8	5
Barium	1,500	14,000	870,000	5,500	690,000	47.3	41.5	34.3	37.3
Beryllium	22	410	44,000	160	1,300	<0.5	0.5	<0.5	0.6
Cadmium	5.2	200	59,000	78	1,800	1.5	1.8	1.6	1.8
Calcium	---	---	---	---	---	80300	78000	83100	78600
Chromium	21	4100	690	230	270	15.3	17.7	15.1	18.2
Cobalt	20	12000	---	4,700	---	7.1	10.6	9	11.4
Copper	2,900	8,200	---	2,900	---	17.9	21.7	19.6	22
Iron	15,000 / 15,900	---	---	---	---	15800	19100	16800	19200
Lead	107	700	---	400	---	8.7	10	8.9	10.6
Magnesium	325,000	730,000	---	325,000	---	41000	42600	45400	42700
Manganese	630 / 636	4100	8,700	1,600	---	307	388	399	486
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	18.1	25.3	21.5	26.6
Potassium	---	---	---	---	---	1780	2430	1810	2420
Selenium	1.3	1000	---	390	---	<1.0	<1.0	<1.0	<1.0
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<0.2
Sodium	---	---	---	---	---	270	294	199	222
Thallium	2.6	160	---	6.3	---	<1.0	<1.0	<1.0	<1.0
Vanadium	550	1400	---	550	---	19.3	22.7	20.1	22.3
Zinc	5,100	61,000	---	23,000	---	38.1	40.9	38.6	54.6
TCLP Metals, mg/L	Class I Groundwater ^{d/}								
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			0.005	0.005	0.005	0.005
Chromium			0.1			<0.005	<0.005	<0.005	<0.005
Cobalt			1			<0.1	<0.1	<0.1	<0.1
Copper			0.65			<0.1	<0.1	<0.1	<0.1
Iron			5			<0.1	<0.1	<0.1	<0.1
Lead			0.0075			<0.005	<0.005	<0.005	<0.005
Manganese			0.15			0.4	1.4	0.3	0.4
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005
Zinc			5			<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
Barium			2			<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Chromium			0.1			0.013	0.007	0.014	0.005
Cobalt			1			<0.1	<0.1	<0.1	<0.1
Copper			0.65			0.009	0.006	0.01	<0.005
Iron			5			9.6	5.5	9.8	3.3
Lead			0.0075			<0.005	<0.005	<0.005	<0.005
Manganese			0.15			<0.1	<0.1	<0.1	<0.1
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005
Zinc			5			<0.1	<0.1	<0.1	<0.1

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

^{a/} Soil reference concentrations from MAC table. Background values for MSA counties are included as applicable. Organic Soil Reference Concentrations (XX.XX / XX.XX / XX.XX) Include the Most Stringent Values from the MAC Table / The Chicago Corporate Limit / and The MSA County Excluding Chicago Values From the MAC Table. Inorganic Soil Reference Concentrations (xx.xx / xx.xx) Include the Most Stringent values from the MAC Table / and the MSA County Value From the MAC Table as Applicable.


^{b/} Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

^{c/} Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

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

When comparing results to the Soil Remediation Objectives, IDOT compares to the most stringent of the ingestion or inhalation exposure route value.

Bold indicates concentration detected

 Shaded values indicate concentration exceeds reference concentration

LPC-663 TABLE (Page 7 of 31)
 UNRESTRICTED
 IDOT, District One
 IL 47/IL 176 at Pleasant Valley Road
 Lakewood, McHenry County, Illinois
 BDE Sequence No.: 18785B
 PTB: 199-014/HH-2, Work Order No.: 5

Boring ID	Soil Reference Concentrations ^{a/}	Soil Remediation Objective for Construction Workers ^{b/}		Soil Remediation Objective for Residential Exposure ^{c/}		Dup-12 (3919-COV-33-02)	3919-COV-41-04	3919-COV-41-04	3919-COV-41-06	
		Sample Depth, ft	Sample Date	Excavation Area(s) [ISGS Site No.(s)]	Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	(5-11)	(0-5)
4/6/2022	4/11/2022								4/11/2022	4/6/2022
Parameter										
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.27	8.71	8.72	7.87	
PID Readings (ppm)						0.0	0.0	0.0	0.0	
VOCs, mg/kg	NO EXCEEDANCES									
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<0.2	<0.2	
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<0.005	<0.005	
SVOCs, mg/kg	NO EXCEEDANCES									
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33	
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33	
Pyrene	2,300	61,000	61,000	2,300	---	<0.33	<0.33	<0.33	<0.33	
Total Metals, mg/kg										
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0	
Arsenic	11.3 / 13	61	25,000	---	750	3.9	5.2	2.6	4.1	
Barium	1,500	14,000	870,000	5,500	690,000	21.6	62.5	23.1	87	
Beryllium	22	410	44,000	160	1,300	<0.5	0.5	<0.5	0.6	
Cadmium	5.2	200	59,000	78	1,800	<0.5	<0.5	<0.5	<0.5	
Calcium	---	---	---	---	---	65100	139000	75400	3740	
Chromium	21	4100	690	230	270	15.3	14.9	8.9	21.1	
Cobalt	20	12000	---	4,700	---	6.7	10.1	4	12.3	
Copper	2,900	8,200	---	2,900	---	16.9	18.6	9.9	25.2	
Iron	15,000 / 15,900	---	---	---	---	16200	18500	9530	17500	
Lead	107	700	---	400	---	8.8	9.8	3.7	11.7	
Magnesium	325,000	730,000	---	325,000	---	34300	27500	37500	4760	
Manganese	630 / 636	4100	8,700	1,600	---	291	510	243	266	
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05	
Nickel	100	4100	440,000	1,600	13,000	21.2	20.3	10.2	27.3	
Potassium	---	---	---	---	---	2170	1170	1010	934	
Selenium	1.3	1000	---	390	---	<1.0	<1.0	<1.0	<1.0	
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<0.2	
Sodium	---	---	---	---	---	183	437	263	836	
Thallium	2.6	160	---	6.3	---	<1.0	<1.0	<1.0	<1.0	
Vanadium	550	1400	---	550	---	19.2	25.9	16.3	30.3	
Zinc	5,100	61,000	---	23,000	---	39.2	31.2	21.1	48.9	
TCLP Metals, mg/L	Class I Groundwater ^{d/}									
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010	
Barium			2			<1.0	<1.0	<1.0	<1.0	
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	
Cadmium			0.005			<0.005	<0.005	<0.005	0.005	
Chromium			0.1			<0.005	<0.005	<0.005	<0.005	
Cobalt			1			<0.1	<0.1	<0.1	<0.1	
Copper			0.65			<0.1	0.1	<0.1	<0.1	
Iron			5			<0.1	<0.1	<0.1	0.6	
Lead			0.0075			<0.005	<0.005	<0.005	<0.005	
Manganese			0.15			0.7	<0.1	1.5	8.2	
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	
Silver			0.05			<0.005	<0.005	<0.005	<0.005	
Zinc			5			<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	
Barium			2			<1.0	<1.0	<1.0	<1.0	
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	
Chromium			0.1			0.006	0.026	0.01	0.017	
Cobalt			1			<0.1	<0.1	<0.1	<0.1	
Copper			0.65			<0.005	0.013	0.011	0.018	
Iron			5			3.4	22.4	8.5	10.3	
Lead			0.0075			<0.005	0.005	<0.005	<0.005	
Manganese			0.15			<0.1	0.1	<0.1	<0.1	
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	
Silver			0.05			<0.005	<0.005	<0.005	<0.005	
Zinc			5			<0.1	<0.1	<0.1	<0.1	

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

^{a/} Soil reference concentrations from MAC table. Background values for MSA counties are included as applicable. Organic Soil Reference Concentrations (XX.XX / XX.XX / XX.XX) Include the Most Stringent Values from the MAC Table / The Chicago Corporate Limit / and The MSA County Excluding Chicago Values From the MAC Table. Inorganic Soil Reference Concentrations (xx.xx / xx.xx) Include the Most Stringent values from the MAC Table / and the MSA County Value From the MAC Table as Applicable.


^{b/} Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

^{c/} Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

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

When comparing results to the Soil Remediation Objectives, IDOT compares to the most stringent of the ingestion or inhalation exposure route value.

Bold indicates concentration detected

 Shaded values indicate concentration exceeds reference concentration

LPC-663 TABLE (Page 8 of 31)
 UNRESTRICTED
 IDOT, District One
 IL 47/IL 176 at Pleasant Valley Road
 Lakewood, McHenry County, Illinois
 BDE Sequence No.: 18785B
 PTB: 199-014/HH-2, Work Order No.: 5

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/}		3919-COV-41-06	3919-COV-41-07	3919-COV-41-07	3919-COV-41-08
		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	(5-11)	(0-5)	(5-11)	(0-5)
						4/6/2022	4/6/2022	4/6/2022	4/6/2022
						3919-COV-41	3919-COV-41	3919-COV-41	3919-COV-41
Parameter									
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.29	8.29	8.17	8.59
PID Readings (ppm)						0.0	0.0	0.0	0.0
VOCs, mg/kg		NO EXCEEDANCES							
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<0.2	<0.2
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<0.005	<0.005
SVOCs, mg/kg		NO EXCEEDANCES							
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Pyrene	2,300	61,000	61,000	2,300	---	<0.33	<0.33	<0.33	<0.33
Total Metals, mg/kg									
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	4	4.9	3	4.5
Barium	1,500	14,000	870,000	5,500	690,000	31.7	37.6	28.6	49.3
Beryllium	22	410	44,000	160	1,300	<0.5	<0.5	<0.5	<0.5
Cadmium	5.2	200	59,000	78	1,800	<0.5	<0.5	<0.5	<0.5
Calcium	---	---	---	---	---	89300	77200	83000	74100
Chromium	21	4100	690	230	270	16.7	15.4	16.3	13.8
Cobalt	20	12000	---	4,700	---	10.6	13.2	9.8	7.7
Copper	2,900	8,200	---	2,900	---	21.8	21.4	26.8	19.3
Iron	15,000 / 15,900	---	---	---	---	17300	17300	16000	15100
Lead	107	700	---	400	---	9.8	10.6	10.2	7.8
Magnesium	325,000	730,000	---	325,000	---	47800	40600	44000	39100
Manganese	630 / 636	4100	8,700	1,600	---	437	540	388	355
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	26.4	27	24.4	20.3
Potassium	---	---	---	---	---	2400	1880	2300	1920
Selenium	1.3	1000	---	390	---	<1.0	<1.0	<1.0	<1.0
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<0.2
Sodium	---	---	---	---	---	283	421	294	202
Thallium	2.6	160	---	6.3	---	<1.0	<1.0	<1.0	<1.0
Vanadium	550	1400	---	550	---	21.4	20.6	20.3	18.2
Zinc	5,100	61,000	---	23,000	---	43.5	40.5	41.2	38.2
TCLP Metals, mg/L		Class I Groundwater ^{d/}							
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	1
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	0.005	0.005	0.005
Chromium			0.1			<0.005	<0.005	<0.005	<0.005
Cobalt			1			<0.1	<0.1	<0.1	<0.1
Copper			0.65			<0.1	<0.1	<0.1	<0.1
Iron			5			<0.1	<0.1	<0.1	0.1
Lead			0.0075			<0.005	<0.005	<0.005	<0.005
Manganese			0.15			1.8	0.9	1.5	1.9
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005
Zinc			5			<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
Barium			2			<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<0.005	0.006	0.01	0.017
Cobalt			1			<0.1	<0.1	<0.1	<0.1
Copper			0.65			<0.005	<0.005	0.006	0.014
Iron			5			1	4.1	5.1	13.8
Lead			0.0075			<0.005	<0.005	<0.005	<0.005
Manganese			0.15			<0.1	<0.1	<0.1	0.1
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005
Zinc			5			<0.1	<0.1	<0.1	<0.1

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

^{a/} Soil reference concentrations from MAC table. Background values for MSA counties are included as applicable. Organic Soil Reference Concentrations (XX.XX / XX.XX / XX.XX) Include the Most Stringent Values from the MAC Table / The Chicago Corporate Limit / and The MSA County Excluding Chicago Values From the MAC Table. Inorganic Soil Reference Concentrations (xx.xx / xx.xx) Include the Most Stringent values from the MAC Table / and the MSA County Value From the MAC Table as Applicable.


^{b/} Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

^{c/} Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

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

When comparing results to the Soil Remediation Objectives, IDOT compares to the most stringent of the ingestion or inhalation exposure route value.

Bold indicates concentration detected

 Shaded values indicate concentration exceeds reference concentration

LPC-663 TABLE (Page 9 of 31)
 UNRESTRICTED
 IDOT, District One
 IL 47/IL 176 at Pleasant Valley Road
 Lakewood, McHenry County, Illinois
 BDE Sequence No.: 18785B
 PTB: 199-014/HH-2, Work Order No.: 5

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/}		3919-COV-41-08	3919-COV-41-09	3919-COV-41-09	3919-COV-41-10
		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	(5-11)	(0-5)	(5-11)	(0-5)
						4/6/2022	4/6/2022	4/6/2022	4/6/2022
						3919-COV-41	3919-COV-41	3919-COV-41	3919-COV-41
Parameter									
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.58	7.90	8.28	8.23
PID Readings (ppm)						0.0	0.0	0.0	0.0
VOCs, mg/kg	NO EXCEEDANCES								
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<0.2	<0.2
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<0.005	<0.005
SVOCs, mg/kg	NO EXCEEDANCES								
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Pyrene	2,300	61,000	61,000	2,300	---	<0.33	<0.33	<0.33	<0.33
Total Metals, mg/kg									
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	4.7	3.3	5.9	3.8
Barium	1,500	14,000	870,000	5,500	690,000	40.6	20	24.1	31.4
Beryllium	22	410	44,000	160	1,300	<0.5	<0.5	<0.5	<0.5
Cadmium	5.2	200	59,000	78	1,800	<0.5	<0.5	<0.5	<0.5
Calcium	---	---	---	---	---	86800	144000	60600	75600
Chromium	21	4100	690	230	270	16.1	9.6	13.1	14.2
Cobalt	20	12000	---	4,700	---	9.7	5.1	7.7	8
Copper	2,900	8,200	---	2,900	---	20.6	10.4	19.8	19.6
Iron	15,000 / 15,900	---	---	---	---	18700	10100	20600	16200
Lead	107	700	---	400	---	10.7	5.4	9	7.7
Magnesium	325,000	730,000	---	325,000	---	46700	82000	38300	35100
Manganese	630 / 636	4100	8,700	1,600	---	401	385	253	385
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	25	11.5	21.5	20.6
Potassium	---	---	---	---	---	2210	962	1300	1640
Selenium	1.3	1000	---	390	---	<1.0	<1.0	<1.0	<1.0
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<0.2
Sodium	---	---	---	---	---	221	314	585	700
Thallium	2.6	160	---	6.3	---	<1.0	<1.0	<1.0	<1.0
Vanadium	550	1400	---	550	---	21.3	12.6	38	20.4
Zinc	5,100	61,000	---	23,000	---	44	18.8	37.8	34.1
TCLP Metals, mg/L	Class I Groundwater ^{d/}								
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			0.005	0.006	0.006	0.005
Chromium			0.1			<0.005	<0.005	<0.005	<0.005
Cobalt			1			<0.1	<0.1	<0.1	<0.1
Copper			0.65			<0.1	<0.1	<0.1	<0.1
Iron			5			<0.1	<0.1	<0.1	<0.1
Lead			0.0075			<0.005	<0.005	<0.005	<0.005
Manganese			0.15			1.9	7	1.8	5.2
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	0.011
Silver			0.05			<0.005	<0.005	<0.005	<0.005
Zinc			5			<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
Barium			2			<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Chromium			0.1			0.011	0.008	0.008	0.007
Cobalt			1			<0.1	<0.1	<0.1	<0.1
Copper			0.65			0.009	0.008	0.006	0.006
Iron			5			8.1	5.9	6.5	5.5
Lead			0.0075			<0.005	<0.005	<0.005	<0.005
Manganese			0.15			<0.1	<0.1	<0.1	<0.1
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005
Zinc			5			<0.1	<0.1	<0.1	<0.1

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

^{a/} Soil reference concentrations from MAC table. Background values for MSA counties are included as applicable. Organic Soil Reference Concentrations (XX.XX / XX.XX / XX.XX) Include the Most Stringent Values from the MAC Table / The Chicago Corporate Limit / and The MSA County Excluding Chicago Values From the MAC Table. Inorganic Soil Reference Concentrations (xx.xx / xx.xx) Include the Most Stringent values from the MAC Table / and the MSA County Value From the MAC Table as Applicable.


^{b/} Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

^{c/} Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

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

When comparing results to the Soil Remediation Objectives, IDOT compares to the most stringent of the ingestion or inhalation exposure route value.

Bold indicates concentration detected

 Shaded values indicate concentration exceeds reference concentration

LPC-663 TABLE (Page 10 of 31)
 UNRESTRICTED
 IDOT, District One
 IL 47/IL 176 at Pleasant Valley Road
 Lakewood, McHenry County, Illinois
 BDE Sequence No.: 18785B
 PTB: 199-014/HH-2, Work Order No.: 5

Boring ID	Soil Reference Concentrations ^{a/}	Soil Remediation Objective for Construction Workers ^{b/}		Soil Remediation Objective for Residential Exposure ^{c/}		3919-COV-41-10	3919-COV-41-11	3919-COV-41-11	Dup-13 (3919-COV-41-11)
		Sample Depth, ft	Sample Date	Excavation Area(s) [ISGS Site No.(s)]	Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	(5-11)
4/6/2022	4/6/2022								4/6/2022
Parameter									
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.37	8.22	8.21	8.10
PID Readings (ppm)						0.0	0.0	0.0	0.0
VOCs, mg/kg	NO EXCEEDANCES								
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<0.2	<0.2
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<0.005	<0.005
SVOCs, mg/kg	NO EXCEEDANCES								
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Pyrene	2,300	61,000	61,000	2,300	---	<0.33	<0.33	<0.33	<0.33
Total Metals, mg/kg									
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	4.2	3.8	6.8	4.4
Barium	1,500	14,000	870,000	5,500	690,000	32.2	32.7	28.8	41.9
Beryllium	22	410	44,000	160	1,300	<0.5	<0.5	<0.5	<0.5
Cadmium	5.2	200	59,000	78	1,800	<0.5	<0.5	<0.5	<0.5
Calcium	---	---	---	---	---	71800	71200	77100	79500
Chromium	21	4100	690	230	270	16.1	30	15.7	15.6
Cobalt	20	12000	---	4,700	---	8.5	9.9	11.4	8.8
Copper	2,900	8,200	---	2,900	---	24.2	22.9	21.1	18.1
Iron	15,000 / 15,900	---	---	---	---	19400	19100	19900	17300
Lead	107	700	---	400	---	9.7	9.7	10.7	8.5
Magnesium	325,000	730,000	---	325,000	---	38200	37900	40400	42200
Manganese	630 / 636	4100	8,700	1,600	---	384	380	384	349
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	24.1	26.4	25.6	22.9
Potassium	---	---	---	---	---	2190	2330	1940	2160
Selenium	1.3	1000	---	390	---	<1.0	<1.0	<1.0	<1.0
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<0.2
Sodium	---	---	---	---	---	211	201	256	196
Thallium	2.6	160	---	6.3	---	<1.0	<1.0	<1.0	<1.0
Vanadium	550	1400	---	550	---	22.7	19.6	31.2	20
Zinc	5,100	61,000	---	23,000	---	40.7	42.3	43	41.8
TCLP Metals, mg/L	Class I Groundwater ^{d/}								
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			0.005	0.005	0.005	<0.005
Chromium			0.1			<0.005	<0.005	<0.005	<0.005
Cobalt			1			<0.1	<0.1	<0.1	<0.1
Copper			0.65			<0.1	<0.1	<0.1	<0.1
Iron			5			<0.1	<0.1	<0.1	<0.1
Lead			0.0075			<0.005	<0.005	<0.005	<0.005
Manganese			0.15			2.4	1.9	1.3	1.5
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1
Selenium			0.05			0.011	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005
Zinc			5			<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
Barium			2			<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<0.005	<0.005	<0.005	<0.005
Cobalt			1			<0.1	<0.1	<0.1	<0.1
Copper			0.65			0.01	0.009	0.011	<0.005
Iron			5			2.4	1.5	1.8	1.2
Lead			0.0075			<0.005	<0.005	<0.005	<0.005
Manganese			0.15			<0.1	<0.1	<0.1	<0.1
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005
Zinc			5			<0.1	<0.1	<0.1	<0.1

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

^{a/} Soil reference concentrations from MAC table. Background values for MSA counties are included as applicable. Organic Soil Reference Concentrations (XX.XX / XX.XX / XX.XX) Include the Most Stringent Values from the MAC Table / The Chicago Corporate Limit / and The MSA County Excluding Chicago Values From the MAC Table. Inorganic Soil Reference Concentrations (xx.xx / xx.xx) Include the Most Stringent values from the MAC Table / and the MSA County Value From the MAC Table as Applicable.


^{b/} Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

^{c/} Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

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

When comparing results to the Soil Remediation Objectives, IDOT compares to the most stringent of the ingestion or inhalation exposure route value.

Bold indicates concentration detected

 Shaded values indicate concentration exceeds reference concentration

LPC-663 TABLE (Page 11 of 31)
 UNRESTRICTED
 IDOT, District One
 IL 47/IL 176 at Pleasant Valley Road
 Lakewood, McHenry County, Illinois
 BDE Sequence No.: 18785B
 PTB: 199-014/HH-2, Work Order No.: 5

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/}		3919-COV-41-11	3919-COV-41-11	3919-COV-41-11	3919-COV-41-12
						(10-15)	(15-20)	(20-25)	(0-5)
						4/6/2022	4/6/2022	4/6/2022	4/6/2022
		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	3919-COV-41	3919-COV-41	3919-COV-41	3919-COV-41
Parameter									
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.03	8.37	8.62	8.43
PID Readings (ppm)						0.0	0.0	0.0	0.0
VOCs, mg/kg	NO EXCEEDANCES								
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<0.2	<0.2
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<0.005	<0.005
SVOCs, mg/kg	NO EXCEEDANCES								
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Pyrene	2,300	61,000	61,000	2,300	---	<0.33	<0.33	<0.33	<0.33
Total Metals, mg/kg									
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	3.7	7.7	5.6	3.1
Barium	1,500	14,000	870,000	5,500	690,000	25.2	31.7	32	52.1
Beryllium	22	410	44,000	160	1,300	<0.5	<0.5	<0.5	<0.5
Cadmium	5.2	200	59,000	78	1,800	<0.5	<0.5	<0.5	<0.5
Calcium	---	---	---	---	---	77500	74200	84800	64400
Chromium	21	4100	690	230	270	13.1	14.9	15.5	18.2
Cobalt	20	12000	---	4,700	---	8.3	9.6	10	6.9
Copper	2,900	8,200	---	2,900	---	18.5	19.8	20.6	21.3
Iron	15,000 / 15,900	---	---	---	---	14800	18100	20000	18300
Lead	107	700	---	400	---	8.2	9.3	10.6	8.8
Magnesium	325,000	730,000	---	325,000	---	40700	38400	44800	43100
Manganese	630 / 636	4100	8,700	1,600	---	364	378	420	300
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	20.4	25	25	22.3
Potassium	---	---	---	---	---	1800	2140	2330	1610
Selenium	1.3	1000	---	390	---	<1.0	<1.0	<1.0	<1.0
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<0.2
Sodium	---	---	---	---	---	158	182	195	585
Thallium	2.6	160	---	6.3	---	<1.0	<1.0	<1.0	<1.0
Vanadium	550	1400	---	550	---	16.8	18.7	20.9	22.8
Zinc	5,100	61,000	---	23,000	---	32.9	36.9	40.3	41.2
TCLP Metals, mg/L	Class I Groundwater ^{d/}								
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<0.005	<0.005	<0.005	<0.005
Cobalt			1			<0.1	<0.1	<0.1	<0.1
Copper			0.65			<0.1	<0.1	<0.1	<0.1
Iron			5			0.2	0.1	<0.1	0.2
Lead			0.0075			<0.005	<0.005	<0.005	<0.005
Manganese			0.15			2	2	1.6	1.6
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005
Zinc			5			<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
Barium			2			<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<0.005	<0.005	<0.005	<0.005
Cobalt			1			<0.1	<0.1	<0.1	<0.1
Copper			0.65			0.006	<0.005	<0.005	<0.005
Iron			5			0.7	1.9	0.9	1.5
Lead			0.0075			<0.005	<0.005	<0.005	<0.005
Manganese			0.15			<0.1	<0.1	<0.1	<0.1
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005
Zinc			5			<0.1	<0.1	<0.1	<0.1

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

^{a/} Soil reference concentrations from MAC table. Background values for MSA counties are included as applicable.
 Organic Soil Reference Concentrations (XX.XX / XX.XX / XX.XX) Include the Most Stringent Values from the MAC Table / The Chicago Corporate Limit / and The MSA County Excluding Chicago Values From the MAC Table.
 Inorganic Soil Reference Concentrations (xx.xx / xx.xx) Include the Most Stringent values from the MAC Table / and the MSA County Value From the MAC Table as Applicable.

^{b/} Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

^{c/} Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

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

When comparing results to the Soil Remediation Objectives, IDOT compares to the most stringent of the ingestion or inhalation exposure route value.

Bold indicates concentration detected

Shaded values indicate concentration exceeds reference concentration

LPC-663 TABLE (Page 12 of 31)
 UNRESTRICTED
 IDOT, District One
 IL 47/IL 176 at Pleasant Valley Road
 Lakewood, McHenry County, Illinois
 BDE Sequence No.: 18785B
 PTB: 199-014/HH-2, Work Order No.: 5

Boring ID	Soil Reference Concentrations ^{a/}	Soil Remediation Objective for Construction Workers ^{b/}		Soil Remediation Objective for Residential Exposure ^{c/}		3919-COV-41-12	3919-COV-41-12	3919-COV-41-12	3919-COV-41-12	
		Sample Depth, ft	Sample Date	Excavation Area(s) [ISGS Site No.(s)]	Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	(5-10)	(10-15)
4/6/2022	4/6/2022								4/6/2022	4/6/2022
Parameter										
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.48	8.33	8.29	8.42	
PID Readings (ppm)						0.0	0.0	0.0	0.0	
VOCs, mg/kg	NO EXCEEDANCES									
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<0.2	<0.2	
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<0.005	<0.005	
SVOCs, mg/kg	NO EXCEEDANCES									
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33	
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33	
Pyrene	2,300	61,000	61,000	2,300	---	<0.33	<0.33	<0.33	<0.33	
Total Metals, mg/kg										
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0	
Arsenic	11.3 / 13	61	25,000	---	750	10.5	3.6	4	4	
Barium	1,500	14,000	870,000	5,500	690,000	99.6	27.1	30.3	31.6	
Beryllium	22	410	44,000	160	1,300	<0.5	<0.5	<0.5	<0.5	
Cadmium	5.2	200	59,000	78	1,800	<0.5	<0.5	<0.5	<0.5	
Calcium	---	---	---	---	---	59600	74900	67600	76600	
Chromium	21	4100	690	230	270	14.9	14.4	14.7	15.9	
Cobalt	20	12000	---	4,700	---	47.6	8.9	8.9	9.5	
Copper	2,900	8,200	---	2,900	---	19.6	18	17.8	18.2	
Iron	15,000 / 15,900	---	---	---	---	20400	15000	15700	17100	
Lead	107	700	---	400	---	11.9	8.4	8.4	9.1	
Magnesium	325,000	730,000	---	325,000	---	32100	39800	35600	41200	
Manganese	630 / 636	4100	8,700	1,600	---	1090	370	342	376	
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05	
Nickel	100	4100	440,000	1,600	13,000	34.4	22.1	22.7	24.3	
Potassium	---	---	---	---	---	1830	2120	2140	2610	
Selenium	1.3	1000	---	390	---	<1.0	<1.0	<1.0	<1.0	
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<0.2	
Sodium	---	---	---	---	---	161	166	158	188	
Thallium	2.6	160	---	6.3	---	<1.0	<1.0	<1.0	<1.0	
Vanadium	550	1400	---	550	---	18.5	17.7	17.9	20.9	
Zinc	5,100	61,000	---	23,000	---	48.9	34.2	34	44.1	
TCLP Metals, mg/L	Class I Groundwater ^{d/}									
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010	
Barium			2			<1.0	<1.0	<1.0	<1.0	
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	
Chromium			0.1			<0.005	<0.005	<0.005	<0.005	
Cobalt			1			<0.1	<0.1	<0.1	<0.1	
Copper			0.65			<0.1	<0.1	<0.1	<0.1	
Iron			5			<0.1	<0.1	<0.1	<0.1	
Lead			0.0075			<0.005	<0.005	<0.005	<0.005	
Manganese			0.15			1.3	1.9	1.7	1.7	
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	
Selenium			0.05			<0.010	<0.010	<0.010	0.012	
Silver			0.05			<0.005	<0.005	<0.005	<0.005	
Zinc			5			<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	
Barium			2			<1.0	<1.0	<1.0	<1.0	
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	
Chromium			0.1			0.005	0.012	0.006	<0.005	
Cobalt			1			<0.1	<0.1	<0.1	<0.1	
Copper			0.65			0.005	0.007	<0.005	0.009	
Iron			5			3.3	6.3	3.4	0.9	
Lead			0.0075			<0.005	<0.005	<0.005	<0.005	
Manganese			0.15			<0.1	<0.1	<0.1	<0.1	
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	
Silver			0.05			<0.005	<0.005	<0.005	<0.005	
Zinc			5			<0.1	<0.1	<0.1	<0.1	

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

^{a/} Soil reference concentrations from MAC table. Background values for MSA counties are included as applicable. Organic Soil Reference Concentrations (XX.XX / XX.XX / XX.XX) Include the Most Stringent Values from the MAC Table / The Chicago Corporate Limit / and The MSA County Excluding Chicago Values From the MAC Table. Inorganic Soil Reference Concentrations (xx.xx / xx.xx) Include the Most Stringent values from the MAC Table / and the MSA County Value From the MAC Table as Applicable.

^{b/} Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

^{c/} Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

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

When comparing results to the Soil Remediation Objectives, IDOT compares to the most stringent of the ingestion or inhalation exposure route value.

Bold indicates concentration detected

Shaded values indicate concentration exceeds reference concentration

LPC-663 TABLE (Page 13 of 31)
 UNRESTRICTED
 IDOT, District One
 IL 47/IL 176 at Pleasant Valley Road
 Lakewood, McHenry County, Illinois
 BDE Sequence No.: 18785B
 PTB: 199-014/HH-2, Work Order No.: 5

Boring ID	Soil Reference Concentrations ^{a/}	Soil Remediation Objective for Construction Workers ^{b/}		Soil Remediation Objective for Residential Exposure ^{c/}		3919-COV-41-13	3919-COV-41-13	3919-COV-41-13	3919-COV-41-13
						(0-5)	(5-10)	(10-15)	(15-20)
Sample Depth, ft						4/8/2022	4/8/2022	4/8/2022	4/8/2022
Sample Date									
Excavation Area(s) [ISGS Site No.(s)]		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	3919-COV-41	3919-COV-41	3919-COV-41	3919-COV-41
Parameter									
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	7.67	8.15	8.16	8.48
PID Readings (ppm)						0.0	0.0	0.0	0.0
VOCs, mg/kg		NO EXCEEDANCES							
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<0.2	<0.2
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<0.005	<0.005
SVOCs, mg/kg		NO EXCEEDANCES							
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Pyrene	2,300	61,000	61,000	2,300	---	<0.33	<0.33	<0.33	<0.33
Total Metals, mg/kg									
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	4	8	3	5.5
Barium	1,500	14,000	870,000	5,500	690,000	74.2	26.8	16	23.2
Beryllium	22	410	44,000	160	1,300	0.6	<0.5	<0.5	<0.5
Cadmium	5.2	200	59,000	78	1,800	<0.5	<0.5	<0.5	<0.5
Calcium	---	---	---	---	---	42900	73500	92500	92100
Chromium	21	4100	690	230	270	18.1	16.1	8	12.1
Cobalt	20	12000	---	4,700	---	9.2	9	4.9	8.2
Copper	2,900	8,200	---	2,900	---	20.1	20.4	12.6	19.9
Iron	15,000 / 15,900	---	---	---	---	19500	23200	10100	16100
Lead	107	700	---	400	---	11.9	9	5.5	9.3
Magnesium	325,000	730,000	---	325,000	---	20300	37700	47900	48700
Manganese	630 / 636	4100	8,700	1,600	---	668	310	333	399
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	20.9	25.6	12	20.1
Potassium	---	---	---	---	---	1710	2200	1230	2120
Selenium	1.3	1000	---	390	---	<1.0	<1.0	<1.0	<1.0
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<0.2
Sodium	---	---	---	---	---	1280	832	199	188
Thallium	2.6	160	---	6.3	---	<1.0	<1.0	<1.0	<1.0
Vanadium	550	1400	---	550	---	27.4	21.2	13.1	16.9
Zinc	5,100	61,000	---	23,000	---	43.2	44.6	23.9	53.1
TCLP Metals, mg/L		Class I Groundwater ^{d/}							
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<0.005	<0.005	<0.005	<0.005
Cobalt			1			<0.1	<0.1	<0.1	<0.1
Copper			0.65			<0.1	<0.1	<0.1	<0.1
Iron			5			<0.1	<0.1	<0.1	<0.1
Lead			0.0075			<0.005	<0.005	<0.005	<0.005
Manganese			0.15			7.3	1.3	1.5	1.5
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005
Zinc			5			<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
Barium			2			<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<0.005	0.011	<0.005	<0.005
Cobalt			1			<0.1	<0.1	<0.1	<0.1
Copper			0.65			<0.005	0.007	<0.005	<0.005
Iron			5			2.4	9.6	1.5	1.2
Lead			0.0075			<0.005	<0.005	<0.005	<0.005
Manganese			0.15			<0.1	<0.1	<0.1	<0.1
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005
Zinc			5			<0.1	<0.1	<0.1	<0.1

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

^{a/} Soil reference concentrations from MAC table. Background values for MSA counties are included as applicable. Organic Soil Reference Concentrations (XX.XX / XX.XX / XX.XX) Include the Most Stringent Values from the MAC Table / The Chicago Corporate Limit / and The MSA County Excluding Chicago Values From the MAC Table. Inorganic Soil Reference Concentrations (xx.xx / xx.xx) Include the Most Stringent values from the MAC Table / and the MSA County Value From the MAC Table as Applicable.

^{b/} Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

^{c/} Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

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

When comparing results to the Soil Remediation Objectives, IDOT compares to the most stringent of the ingestion or inhalation exposure route value.

Bold indicates concentration detected

Shaded values indicate concentration exceeds reference concentration

LPC-663 TABLE (Page 14 of 31)
 UNRESTRICTED
 IDOT, District One
 IL 47/IL 176 at Pleasant Valley Road
 Lakewood, McHenry County, Illinois
 BDE Sequence No.: 18785B
 PTB: 199-014/HH-2, Work Order No.: 5

Boring ID	Soil Reference Concentrations ^{a/}	Soil Remediation Objective for Construction Workers ^{b/}		Soil Remediation Objective for Residential Exposure ^{c/}		3919-COV-41-13	3919-COV-41-15	3919-COV-41-15	3919-COV-41-16	
		Sample Depth, ft	Sample Date	Excavation Area(s) [ISGS Site No.(s)]	Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	(20-25)	(0-5)
4/8/2022	4/8/2022								4/8/2022	4/8/2022
Parameter										
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.62	7.64	8.68	7.95	
PID Readings (ppm)						0.0	0.0	0.0	0.0	
VOCs, mg/kg	NO EXCEEDANCES									
Acetone	25	---	100,000	70,000	100,000	<0.2	0.351	<0.2	<0.2	
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<0.005	<0.005	
SVOCs, mg/kg	NO EXCEEDANCES									
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33	
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33	
Pyrene	2,300	61,000	61,000	2,300	---	<0.33	<0.33	<0.33	<0.33	
Total Metals, mg/kg										
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0	
Arsenic	11.3 / 13	61	25,000	---	750	4.9	2.1	<1.0	6.3	
Barium	1,500	14,000	870,000	5,500	690,000	32	81	23.7	84.9	
Beryllium	22	410	44,000	160	1,300	<0.5	0.6	<0.5	0.7	
Cadmium	5.2	200	59,000	78	1,800	<0.5	<0.5	<0.5	<0.5	
Calcium	---	---	---	---	---	90900	13200	93300	19000	
Chromium	21	4100	690	230	270	16.3	16.2	10	20.9	
Cobalt	20	12000	---	4,700	---	10	6.8	4	10.3	
Copper	2,900	8,200	---	2,900	---	21.9	22	21.1	20.2	
Iron	15,000 / 15,900	---	---	---	---	18200	10900	6750	21300	
Lead	107	700	---	400	---	10.3	21.4	7.7	31.8	
Magnesium	325,000	730,000	---	325,000	---	46500	7150	56200	11900	
Manganese	630 / 636	4100	8,700	1,600	---	416	113	217	316	
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05	
Nickel	100	4100	440,000	1,600	13,000	24.8	16.4	11.3	23.1	
Potassium	---	---	---	---	---	2550	633	696	1120	
Selenium	1.3	1000	---	390	---	<1.0	<1.0	<1.0	<1.0	
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<0.2	
Sodium	---	---	---	---	---	199	744	705	1030	
Thallium	2.6	160	---	6.3	---	<1.0	<1.0	<1.0	<1.0	
Vanadium	550	1400	---	550	---	20.7	24.1	19.4	34.9	
Zinc	5,100	61,000	---	23,000	---	42	35.6	36.1	48.9	
TCLP Metals, mg/L	Class I Groundwater ^{d/}									
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010	
Barium			2			<1.0	<1.0	<1.0	<1.0	
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	
Chromium			0.1			<0.005	<0.005	<0.005	<0.005	
Cobalt			1			<0.1	<0.1	<0.1	<0.1	
Copper			0.65			<0.1	<0.1	<0.1	<0.1	
Iron			5			<0.1	0.2	<0.1	0.3	
Lead			0.0075			<0.005	<0.005	<0.005	<0.005	
Manganese			0.15			1.4	3.3	0.8	5.3	
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	
Silver			0.05			<0.005	<0.005	<0.005	<0.005	
Zinc			5			<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	
Barium			2			<1.0	<1.0	<1.0	<1.0	
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	
Chromium			0.1			<0.005	0.008	0.015	0.011	
Cobalt			1			<0.1	<0.1	<0.1	<0.1	
Copper			0.65			<0.005	0.009	0.025	0.013	
Iron			5			2.2	3.2	6.5	8.6	
Lead			0.0075			<0.005	<0.005	0.007	0.007	
Manganese			0.15			<0.1	<0.1	<0.1	<0.1	
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	
Silver			0.05			<0.005	<0.005	<0.005	<0.005	
Zinc			5			<0.1	<0.1	<0.1	<0.1	

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

^{a/} Soil reference concentrations from MAC table. Background values for MSA counties are included as applicable. Organic Soil Reference Concentrations (XX.XX / XX.XX / XX.XX) Include the Most Stringent Values from the MAC Table / The Chicago Corporate Limit / and The MSA County Excluding Chicago Values From the MAC Table. Inorganic Soil Reference Concentrations (xx.xx / xx.xx) Include the Most Stringent values from the MAC Table / and the MSA County Value From the MAC Table as Applicable.


^{b/} Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

^{c/} Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

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

When comparing results to the Soil Remediation Objectives, IDOT compares to the most stringent of the ingestion or inhalation exposure route value.

Bold indicates concentration detected

 Shaded values indicate concentration exceeds reference concentration

LPC-663 TABLE (Page 15 of 31)
 UNRESTRICTED
 IDOT, District One
 IL 47/IL 176 at Pleasant Valley Road
 Lakewood, McHenry County, Illinois
 BDE Sequence No.: 18785B
 PTB: 199-014/HH-2, Work Order No.: 5

Boring ID	Soil Reference Concentrations ^{a/}	Soil Remediation Objective for Construction Workers ^{b/}		Soil Remediation Objective for Residential Exposure ^{c/}		3919-COV-41-16	3919-COV-41-17	3919-COV-41-17	3919-COV-41-19	
		Sample Depth, ft	Sample Date	Excavation Area(s) [ISGS Site No.(s)]	Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	(5-11)	(0-5)
4/8/2022	4/8/2022								4/8/2022	4/8/2022
Parameter										
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.19	8.80	8.30	8.65	
PID Readings (ppm)						0.0	0.0	0.0	0.0	
VOCs, mg/kg	NO EXCEEDANCES									
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<0.2	<0.2	
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<0.005	<0.005	
SVOCs, mg/kg	NO EXCEEDANCES									
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33	
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33	
Pyrene	2,300	61,000	61,000	2,300	---	<0.33	<0.33	<0.33	<0.33	
Total Metals, mg/kg										
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0	
Arsenic	11.3 / 13	61	25,000	---	750	2.5	4.6	4.6	7.5	
Barium	1,500	14,000	870,000	5,500	690,000	26.6	45.6	34.2	39.1	
Beryllium	22	410	44,000	160	1,300	<0.5	<0.5	<0.5	<0.5	
Cadmium	5.2	200	59,000	78	1,800	<0.5	<0.5	<0.5	<0.5	
Calcium	---	---	---	---	---	76700	73600	90000	93700	
Chromium	21	4100	690	230	270	14.8	15.2	13.8	16	
Cobalt	20	12000	---	4,700	---	7.8	9.3	8.7	9	
Copper	2,900	8,200	---	2,900	---	17.2	21.2	19.4	22.4	
Iron	15,000 / 15,900	---	---	---	---	16400	16700	15900	22100	
Lead	107	700	---	400	---	8.7	8.8	9.2	11.8	
Magnesium	325,000	730,000	---	325,000	---	40200	38300	47400	49200	
Manganese	630 / 636	4100	8,700	1,600	---	366	367	402	504	
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05	
Nickel	100	4100	440,000	1,600	13,000	22.6	22.6	21.2	24.7	
Potassium	---	---	---	---	---	2020	2120	2100	1740	
Selenium	1.3	1000	---	390	---	<1.0	<1.0	<1.0	<1.0	
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<0.2	
Sodium	---	---	---	---	---	281	496	243	963	
Thallium	2.6	160	---	6.3	---	<1.0	<1.0	<1.0	<1.0	
Vanadium	550	1400	---	550	---	18	19.6	18.9	27.7	
Zinc	5,100	61,000	---	23,000	---	36.9	37.3	35.3	39.2	
TCLP Metals, mg/L	Class I Groundwater ^{d/}									
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010	
Barium			2			<1.0	<1.0	<1.0	<1.0	
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	
Chromium			0.1			<0.005	<0.005	<0.005	<0.005	
Cobalt			1			<0.1	<0.1	<0.1	<0.1	
Copper			0.65			<0.1	<0.1	<0.1	<0.1	
Iron			5			0.1	<0.1	<0.1	<0.1	
Lead			0.0075			<0.005	<0.005	<0.005	<0.005	
Manganese			0.15			2	4.3	1.8	1.4	
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	
Silver			0.05			<0.005	<0.005	<0.005	<0.005	
Zinc			5			<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	
Barium			2			<1.0	<1.0	<1.0	<1.0	
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	
Chromium			0.1			<0.005	0.014	<0.005	0.014	
Cobalt			1			<0.1	<0.1	<0.1	<0.1	
Copper			0.65			<0.005	0.012	<0.005	0.008	
Iron			5			0.9	11.1	0.9	10.7	
Lead			0.0075			<0.005	<0.005	<0.005	<0.005	
Manganese			0.15			<0.1	<0.1	<0.1	<0.1	
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	
Silver			0.05			<0.005	<0.005	<0.005	<0.005	
Zinc			5			<0.1	<0.1	<0.1	<0.1	

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

^{a/} Soil reference concentrations from MAC table. Background values for MSA counties are included as applicable.
 Organic Soil Reference Concentrations (XX.XX / XX.XX / XX.XX) Include the Most Stringent Values from the MAC Table / The Chicago Corporate Limit / and The MSA County Excluding Chicago Values From the MAC Table.
 Inorganic Soil Reference Concentrations (xx.xx / xx.xx) Include the Most Stringent values from the MAC Table / and the MSA County Value From the MAC Table as Applicable.

^{b/} Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

^{c/} Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

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

When comparing results to the Soil Remediation Objectives, IDOT compares to the most stringent of the ingestion or inhalation exposure route value.

Bold indicates concentration detected

Shaded values indicate concentration exceeds reference concentration

LPC-663 TABLE (Page 16 of 31)
 UNRESTRICTED
 IDOT, District One
 IL 47/IL 176 at Pleasant Valley Road
 Lakewood, McHenry County, Illinois
 BDE Sequence No.: 18785B
 PTB: 199-014/HH-2, Work Order No.: 5

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/}		3919-COV-41-19	3919-COV-41-21	3919-COV-41-21	3919-COV-41-22
						(5-11)	(0-5)	(5-11)	(0-5)
						4/8/2022	4/8/2022	4/8/2022	4/8/2022
		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	3919-COV-41	3919-COV-41	3919-COV-41	3919-COV-41
Parameter									
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.21	8.09	7.94	8.04
PID Readings (ppm)						0.0	0.0	0.0	0.0
VOCs, mg/kg	NO EXCEEDANCES								
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<0.2	<0.2
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<0.005	<0.005
SVOCs, mg/kg	NO EXCEEDANCES								
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Pyrene	2,300	61,000	61,000	2,300	---	<0.33	<0.33	<0.33	<0.33
Total Metals, mg/kg									
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	3.7	2.3	8.9	4.9
Barium	1,500	14,000	870,000	5,500	690,000	26.6	21.2	20	53.4
Beryllium	22	410	44,000	160	1,300	<0.5	<0.5	<0.5	0.6
Cadmium	5.2	200	59,000	78	1,800	<0.5	<0.5	<0.5	<0.5
Calcium	---	---	---	---	---	86400	117000	72700	65800
Chromium	21	4100	690	230	270	16.8	8.7	11.4	16.9
Cobalt	20	12000	---	4,700	---	9	4.1	8.9	8.9
Copper	2,900	8,200	---	2,900	---	21.1	12.1	30.2	23.3
Iron	15,000 / 15,900	---	---	---	---	17300	9970	13100	19400
Lead	107	700	---	400	---	9.2	9.3	15.7	11.5
Magnesium	325,000	730,000	---	325,000	---	45000	59500	41700	34600
Manganese	630 / 636	4100	8,700	1,600	---	390	478	274	427
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	24.8	10.4	25.7	24.8
Potassium	---	---	---	---	---	2400	871	1290	1660
Selenium	1.3	1000	---	390	---	<1.0	<1.0	<1.0	<1.0
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<0.2
Sodium	---	---	---	---	---	339	515	389	919
Thallium	2.6	160	---	6.3	---	<1.0	<1.0	<1.0	<1.0
Vanadium	550	1400	---	550	---	21.1	14.5	19.3	24
Zinc	5,100	61,000	---	23,000	---	40	25.7	61.1	43.7
TCLP Metals, mg/L	Class I Groundwater ^{d/}								
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<0.005	<0.005	<0.005	<0.005
Cobalt			1			<0.1	<0.1	<0.1	<0.1
Copper			0.65			<0.1	<0.1	<0.1	<0.1
Iron			5			0.1	<0.1	<0.1	<0.1
Lead			0.0075			<0.005	<0.005	<0.005	<0.005
Manganese			0.15			1.6	1.8	2.5	2.9
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005
Zinc			5			<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
Barium			2			<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Chromium			0.1			0.007	<0.005	<0.005	0.007
Cobalt			1			<0.1	<0.1	<0.1	<0.1
Copper			0.65			<0.005	<0.005	<0.005	0.006
Iron			5			3.7	1.8	1.7	5.5
Lead			0.0075			<0.005	<0.005	<0.005	<0.005
Manganese			0.15			<0.1	<0.1	<0.1	<0.1
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005
Zinc			5			<0.1	<0.1	<0.1	<0.1

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

^{a/} Soil reference concentrations from MAC table. Background values for MSA counties are included as applicable. Organic Soil Reference Concentrations (XX.XX / XX.XX / XX.XX) Include the Most Stringent Values from the MAC Table / The Chicago Corporate Limit / and The MSA County Excluding Chicago Values From the MAC Table. Inorganic Soil Reference Concentrations (xx.xx / xx.xx) Include the Most Stringent values from the MAC Table / and the MSA County Value From the MAC Table as Applicable.


^{b/} Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

^{c/} Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

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

When comparing results to the Soil Remediation Objectives, IDOT compares to the most stringent of the ingestion or inhalation exposure route value.

Bold indicates concentration detected

 Shaded values indicate concentration exceeds reference concentration

LPC-663 TABLE (Page 17 of 31)
 UNRESTRICTED
 IDOT, District One
 IL 47/IL 176 at Pleasant Valley Road
 Lakewood, McHenry County, Illinois
 BDE Sequence No.: 18785B
 PTB: 199-014/HH-2, Work Order No.: 5

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/}		3919-COV-41-22	Dup-18 (3919-COV-41-22)	3919-COV-41-25	3919-COV-41-25
						(5-11)	(5-11)	(0-5)	(5-11)
						4/8/2022	4/8/2022	4/8/2022	4/8/2022
		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	3919-COV-41	3919-COV-41	3919-COV-41	3919-COV-41
Parameter									
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	7.95	8.10	8.67	8.37
PID Readings (ppm)						0.0	0.0	0.0	0.0
VOCs, mg/kg		NO EXCEEDANCES							
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<0.2	<0.2
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<0.005	<0.005
SVOCs, mg/kg		NO EXCEEDANCES							
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Pyrene	2,300	61,000	61,000	2,300	---	<0.33	<0.33	<0.33	<0.33
Total Metals, mg/kg									
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	6.6	1.2	2.1	4.8
Barium	1,500	14,000	870,000	5,500	690,000	57.9	72.2	39	19.2
Beryllium	22	410	44,000	160	1,300	0.6	0.6	<0.5	<0.5
Cadmium	5.2	200	59,000	78	1,800	<0.5	<0.5	<0.5	<0.5
Calcium	---	---	---	---	---	88600	49000	91900	84200
Chromium	21	4100	690	230	270	19.3	17.9	14.6	13.1
Cobalt	20	12000	---	4,700	---	9.8	8.1	10.5	8.7
Copper	2,900	8,200	---	2,900	---	25.9	18.8	16.5	19.5
Iron	15,000 / 15,900	---	---	---	---	23600	14200	14900	15500
Lead	107	700	---	400	---	13.5	12.3	10.7	10.4
Magnesium	325,000	730,000	---	325,000	---	43500	23900	47400	45000
Manganese	630 / 636	4100	8,700	1,600	---	471	211	610	393
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	27.4	20.8	21.4	21.6
Potassium	---	---	---	---	---	1960	1460	1800	1860
Selenium	1.3	1000	---	390	---	<1.0	<1.0	<1.0	<1.0
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<0.2
Sodium	---	---	---	---	---	1060	687	280	182
Thallium	2.6	160	---	6.3	---	<1.0	<1.0	<1.0	<1.0
Vanadium	550	1400	---	550	---	27.4	26.6	18.7	17.2
Zinc	5,100	61,000	---	23,000	---	50	54.4	33.5	44.9
TCLP Metals, mg/L		Class I Groundwater ^{d/}							
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<0.005	<0.005	<0.005	<0.005
Cobalt			1			<0.1	<0.1	<0.1	<0.1
Copper			0.65			<0.1	<0.1	<0.1	<0.1
Iron			5			0.2	<0.1	<0.1	<0.1
Lead			0.0075			<0.005	<0.005	<0.005	<0.005
Manganese			0.15			3.1	1.3	0.9	1.7
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005
Zinc			5			<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
Barium			2			<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<0.005	<0.005	0.015	0.005
Cobalt			1			<0.1	<0.1	<0.1	<0.1
Copper			0.65			<0.005	0.005	0.009	<0.005
Iron			5			2.5	0.8	10.9	2.4
Lead			0.0075			<0.005	<0.005	<0.005	<0.005
Manganese			0.15			<0.1	<0.1	<0.1	<0.1
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005
Zinc			5			<0.1	<0.1	<0.1	<0.1

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

^{a/} Soil reference concentrations from MAC table. Background values for MSA counties are included as applicable. Organic Soil Reference Concentrations (XX.XX / XX.XX / XX.XX) Include the Most Stringent Values from the MAC Table / The Chicago Corporate Limit / and The MSA County Excluding Chicago Values From the MAC Table. Inorganic Soil Reference Concentrations (xx.xx / xx.xx) Include the Most Stringent values from the MAC Table / and the MSA County Value From the MAC Table as Applicable.


^{b/} Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

^{c/} Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

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

When comparing results to the Soil Remediation Objectives, IDOT compares to the most stringent of the ingestion or inhalation exposure route value.

Bold indicates concentration detected

 Shaded values indicate concentration exceeds reference concentration

LPC-663 TABLE (Page 18 of 31)
 UNRESTRICTED
 IDOT, District One
 IL 47/IL 176 at Pleasant Valley Road
 Lakewood, McHenry County, Illinois
 BDE Sequence No.: 18785B
 PTB: 199-014/HH-2, Work Order No.: 5

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/}		3919-COV-47-02	3919-COV-47-02	3919-COV-47-06	3919-COV-47-06
						(0-4)	(4-8)	(0-4)	(4-8)
						4/15/2022	4/15/2022	4/15/2022	4/15/2022
		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	3919-COV-47	3919-COV-47	3919-COV-47	3919-COV-47
Parameter									
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.34	8.82	7.71	8.83
PID Readings (ppm)						0.0	0.0	0.0	0.0
VOCs, mg/kg		NO EXCEEDANCES							
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<0.2	<0.2
Toluene	12	410,000	42	16,000	650	0.0082	<0.005	<0.005	0.0061
SVOCs, mg/kg		NO EXCEEDANCES							
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Pyrene	2,300	61,000	61,000	2,300	---	<0.33	<0.33	<0.33	<0.33
Total Metals, mg/kg									
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	1.8	3.7	3.5	2.1
Barium	1,500	14,000	870,000	5,500	690,000	30.1	28.5	30	20.5
Beryllium	22	410	44,000	160	1,300	<0.5	0.5	<0.5	<0.5
Cadmium	5.2	200	59,000	78	1,800	<0.5	<0.5	<0.5	<0.5
Calcium	---	---	---	---	---	152000	78600	43100	80800
Chromium	21	4100	690	230	270	8.7	13.3	10.9	8.7
Cobalt	20	12000	---	4,700	---	3.4	7.6	4.5	3.8
Copper	2,900	8,200	---	2,900	---	11.7	22.9	11.8	9.8
Iron	15,000 / 15,900	---	---	---	---	9070	17900	13500	10700
Lead	107	700	---	400	---	4.2	9.4	9.8	3.6
Magnesium	325,000	730,000	---	325,000	---	84400	40800	21000	37000
Manganese	630 / 636	4100	8,700	1,600	---	181	413	224	249
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	10.8	20.4	10.8	9.7
Potassium	---	---	---	---	---	902	1710	777	908
Selenium	1.3	1000	---	390	---	<1.0	<1.0	<1.0	<1.0
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<0.2
Sodium	---	---	---	---	---	135	133	77	116
Thallium	2.6	160	---	6.3	---	<1.0	<1.0	<1.0	<1.0
Vanadium	550	1400	---	550	---	13.8	19.1	18.8	13.2
Zinc	5,100	61,000	---	23,000	---	23.9	50.6	33.2	24.2
TCLP Metals, mg/L		Class I Groundwater ^{d/}							
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<0.005	<0.005	<0.005	<0.005
Cobalt			1			<0.1	<0.1	<0.1	<0.1
Copper			0.65			<0.1	<0.1	<0.1	<0.1
Iron			5			<0.1	<0.1	<0.1	<0.1
Lead			0.0075			<0.005	<0.005	<0.005	<0.005
Manganese			0.15			0.7	1.3	1.9	0.5
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005
Zinc			5			<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
Barium			2			<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<0.005	0.011	0.027	0.018
Cobalt			1			<0.1	<0.1	<0.1	<0.1
Copper			0.65			<0.005	0.013	0.031	0.022
Iron			5			2.8	11.2	28.5	16.6
Lead			0.0075			<0.005	0.005	0.009	<0.005
Manganese			0.15			<0.1	<0.1	0.1	0.1
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005
Zinc			5			<0.1	<0.1	<0.1	<0.1

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

^{a/} Soil reference concentrations from MAC table. Background values for MSA counties are included as applicable. Organic Soil Reference Concentrations (XX.XX / XX.XX / XX.XX) Include the Most Stringent Values from the MAC Table / The Chicago Corporate Limit / and The MSA County Excluding Chicago Values From the MAC Table. Inorganic Soil Reference Concentrations (xx.xx / xx.xx) Include the Most Stringent values from the MAC Table / and the MSA County Value From the MAC Table as Applicable.


^{b/} Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

^{c/} Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

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

When comparing results to the Soil Remediation Objectives, IDOT compares to the most stringent of the ingestion or inhalation exposure route value.

Bold indicates concentration detected

 Shaded values indicate concentration exceeds reference concentration

LPC-663 TABLE (Page 19 of 31)
 UNRESTRICTED
 IDOT, District One
 IL 47/IL 176 at Pleasant Valley Road
 Lakewood, McHenry County, Illinois
 BDE Sequence No.: 18785B
 PTB: 199-014/HH-2, Work Order No.: 5

Boring ID	Soil Reference Concentrations ^{a/}	Soil Remediation Objective for Construction Workers ^{b/}		Soil Remediation Objective for Residential Exposure ^{c/}		Dup-38 (3919-COV-47-06)	3919-COV-47-07	3919-COV-47-07	3919-COV-47-08	
		Sample Depth, ft	Sample Date	Excavation Area(s) [ISGS Site No.(s)]	Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	(4-8)	(0-4)
4/15/2022	4/15/2022								4/15/2022	4/15/2022
Parameter										
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.91	7.82	8.37	8.69	
PID Readings (ppm)						0.0	0.0	0.0	0.0	
VOCs, mg/kg	NO EXCEEDANCES									
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<0.2	<0.2	
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<0.005	<0.005	
SVOCs, mg/kg	NO EXCEEDANCES									
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33	
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33	
Pyrene	2,300	61,000	61,000	2,300	---	<0.33	<0.33	<0.33	<0.33	
Total Metals, mg/kg										
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0	
Arsenic	11.3 / 13	61	25,000	---	750	1.8	2.4	1.1	3.6	
Barium	1,500	14,000	870,000	5,500	690,000	13.1	88.5	12.4	26.1	
Beryllium	22	410	44,000	160	1,300	<0.5	0.6	<0.5	<0.5	
Cadmium	5.2	200	59,000	78	1,800	<0.5	<0.5	<0.5	<0.5	
Calcium	---	---	---	---	---	126000	7200	53300	78400	
Chromium	21	4100	690	230	270	6.5	18.1	16.4	10.1	
Cobalt	20	12000	---	4,700	---	2.8	6.2	4	5.4	
Copper	2,900	8,200	---	2,900	---	7.8	20.6	7.6	11	
Iron	15,000 / 15,900	---	---	---	---	6980	16200	10200	12300	
Lead	107	700	---	400	---	2.9	20.5	3.1	5.5	
Magnesium	325,000	730,000	---	325,000	---	62900	4400	30800	34100	
Manganese	630 / 636	4100	8,700	1,600	---	171	352	166	312	
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05	
Nickel	100	4100	440,000	1,600	13,000	7.1	15.3	11.6	13.7	
Potassium	---	---	---	---	---	703	1720	319	886	
Selenium	1.3	1000	---	390	---	<1.0	<1.0	<1.0	<1.0	
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<0.2	
Sodium	---	---	---	---	---	121	<50	153	97	
Thallium	2.6	160	---	6.3	---	<1.0	<1.0	<1.0	<1.0	
Vanadium	550	1400	---	550	---	10.3	25.8	20.5	16.4	
Zinc	5,100	61,000	---	23,000	---	16.3	70	17.4	26.9	
TCLP Metals, mg/L	Class I Groundwater ^{d/}									
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010	
Barium			2			<1.0	<1.0	<1.0	<1.0	
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	
Chromium			0.1			<0.005	<0.005	<0.005	<0.005	
Cobalt			1			<0.1	<0.1	<0.1	<0.1	
Copper			0.65			<0.1	<0.1	<0.1	<0.1	
Iron			5			0.1	0.1	<0.1	<0.1	
Lead			0.0075			<0.005	<0.005	<0.005	<0.005	
Manganese			0.15			0.7	<0.1	1.1	<0.1	
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	
Silver			0.05			<0.005	<0.005	<0.005	<0.005	
Zinc			5			<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	
Barium			2			<1.0	<1.0	<1.0	<1.0	
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	
Chromium			0.1			0.01	0.023	<0.005	<0.005	
Cobalt			1			<0.1	<0.1	<0.1	<0.1	
Copper			0.65			0.013	0.026	<0.005	<0.005	
Iron			5			8.9	14.1	0.7	2.4	
Lead			0.0075			<0.005	0.007	<0.005	<0.005	
Manganese			0.15			<0.1	<0.1	<0.1	<0.1	
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	
Silver			0.05			<0.005	<0.005	<0.005	<0.005	
Zinc			5			<0.1	<0.1	<0.1	<0.1	

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

^{a/} Soil reference concentrations from MAC table. Background values for MSA counties are included as applicable. Organic Soil Reference Concentrations (XX.XX / XX.XX / XX.XX) Include the Most Stringent Values from the MAC Table / The Chicago Corporate Limit / and The MSA County Excluding Chicago Values From the MAC Table. Inorganic Soil Reference Concentrations (xx.xx / xx.xx) Include the Most Stringent values from the MAC Table / and the MSA County Value From the MAC Table as Applicable.


^{b/} Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

^{c/} Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

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

When comparing results to the Soil Remediation Objectives, IDOT compares to the most stringent of the ingestion or inhalation exposure route value.

Bold indicates concentration detected

 Shaded values indicate concentration exceeds reference concentration

LPC-663 TABLE (Page 20 of 31)
 UNRESTRICTED
 IDOT, District One
 IL 47/IL 176 at Pleasant Valley Road
 Lakewood, McHenry County, Illinois
 BDE Sequence No.: 18785B
 PTB: 199-014/HH-2, Work Order No.: 5

Boring ID	Soil Reference Concentrations ^{a/}	Soil Remediation Objective for Construction Workers ^{b/}		Soil Remediation Objective for Residential Exposure ^{c/}		3919-COV-47-08	Dup-39 (3919-COV-47-08)	3919-COV-47-11	Dup-40 (3919-COV-47-11)	
		Sample Depth, ft	Sample Date	Excavation Area(s) [ISGS Site No.(s)]	Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	(4-8)	(4-8)
4/15/2022	4/15/2022								4/15/2022	4/15/2022
Parameter										
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.78	8.51	8.15	7.7	
PID Readings (ppm)						0.0	0.0	0.0	0.0	
VOCs, mg/kg		NO EXCEEDANCES								
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<0.2	<0.2	
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	0.0055	<0.005	
SVOCs, mg/kg		NO EXCEEDANCES								
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33	
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33	
Pyrene	2,300	61,000	61,000	2,300	---	<0.33	<0.33	<0.33	<0.33	
Total Metals, mg/kg										
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0	
Arsenic	11.3 / 13	61	25,000	---	750	1.1	3.4	2	4.9	
Barium	1,500	14,000	870,000	5,500	690,000	44.9	20.8	22.7	74.2	
Beryllium	22	410	44,000	160	1,300	<0.5	<0.5	<0.5	0.7	
Cadmium	5.2	200	59,000	78	1,800	<0.5	<0.5	<0.5	<0.5	
Calcium	---	---	---	---	---	86000	81600	1030	2390	
Chromium	21	4100	690	230	270	15	9.1	7.8	20.6	
Cobalt	20	12000	---	4,700	---	4.8	3.6	3.8	9.2	
Copper	2,900	8,200	---	2,900	---	14	11.4	6.2	20.3	
Iron	15,000 / 15,900	---	---	---	---	14300	11300	9050	22200	
Lead	107	700	---	400	---	6.8	3.9	6	12.3	
Magnesium	325,000	730,000	---	325,000	---	34600	39300	1180	4510	
Manganese	630 / 636	4100	8,700	1,600	---	227	213	162	358	
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05	
Nickel	100	4100	440,000	1,600	13,000	13.6	9.9	7.4	29.5	
Potassium	---	---	---	---	---	1770	968	461	1440	
Selenium	1.3	1000	---	390	---	<1.0	<1.0	<1.0	<1.0	
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<0.2	
Sodium	---	---	---	---	---	129	132	<50	<50	
Thallium	2.6	160	---	6.3	---	<1.0	<1.0	<1.0	<1.0	
Vanadium	550	1400	---	550	---	18.1	13.6	13.7	26.8	
Zinc	5,100	61,000	---	23,000	---	40.4	26.6	21.8	51	
TCLP Metals, mg/L		Class I Groundwater ^{d/}								
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010	
Barium			2			<1.0	<1.0	<1.0	<1.0	
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	
Chromium			0.1			<0.005	<0.005	<0.005	<0.005	
Cobalt			1			<0.1	<0.1	<0.1	<0.1	
Copper			0.65			<0.1	<0.1	<0.1	<0.1	
Iron			5			0.2	0.5	<0.1	0.4	
Lead			0.0075			<0.005	<0.005	<0.005	<0.005	
Manganese			0.15			0.7	1.2	<0.1	<0.1	
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	
Silver			0.05			<0.005	<0.005	<0.005	<0.005	
Zinc			5			<0.1	<0.1	<0.1	<0.1	
SPLP Metals, mg/L		Class I Groundwater ^{d/}								
Arsenic			0.05			<0.010	<0.010	0.075	<0.010	
Barium			2			<1.0	<1.0	<1.0	<1.0	
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	
Cadmium			0.005			<0.005	<0.005	0.006	<0.005	
Chromium			0.1			0.005	0.005	0.128	0.01	
Cobalt			1			<0.1	<0.1	<0.1	<0.1	
Copper			0.65			<0.005	0.007	0.087	0.007	
Iron			5			4.2	4.3	126	7.4	
Lead			0.0075			<0.005	<0.005	0.03	<0.005	
Manganese			0.15			<0.1	<0.1	0.4	<0.1	
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	
Nickel			0.1			<0.1	<0.1	0.1	<0.1	
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	
Silver			0.05			<0.005	<0.005	<0.005	<0.005	
Zinc			5			<0.1	<0.1	0.2	<0.1	

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

^{a/} Soil reference concentrations from MAC table. Background values for MSA counties are included as applicable. Organic Soil Reference Concentrations (XX.XX / XX.XX / XX.XX) Include the Most Stringent Values from the MAC Table / The Chicago Corporate Limit / and The MSA County Excluding Chicago Values From the MAC Table. Inorganic Soil Reference Concentrations (xx.xx / xx.xx) Include the Most Stringent values from the MAC Table / and the MSA County Value From the MAC Table as Applicable.


^{b/} Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

^{c/} Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

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

When comparing results to the Soil Remediation Objectives, IDOT compares to the most stringent of the ingestion or inhalation exposure route value.

Bold indicates concentration detected

 Shaded values indicate concentration exceeds reference concentration

LPC-663 TABLE (Page 21 of 31)
 UNRESTRICTED
 IDOT, District One
 IL 47/IL 176 at Pleasant Valley Road
 Lakewood, McHenry County, Illinois
 BDE Sequence No.: 18785B
 PTB: 199-014/HH-2, Work Order No.: 5

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/}		3919-COV-47-11	3919-COV-48-01	3919-COV-48-01	3919-COV-48-04
		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	(4-8)	(0-5)	(5-10)	(0-5)
						4/15/2022	4/11/2022	4/11/2022	4/11/2022
		3919-COV-47	3919-COV-48	3919-COV-48	3919-COV-48				
Parameter									
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.01	8.17	8.73	8.32
PID Readings (ppm)						0.0	0.1	0.0	0.0
VOCs, mg/kg		NO EXCEEDANCES							
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<0.2	<0.2
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<0.005	<0.005
SVOCs, mg/kg		NO EXCEEDANCES							
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Pyrene	2,300	61,000	61,000	2,300	---	<0.33	<0.33	<0.33	<0.33
Total Metals, mg/kg									
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	2.1	5.2	2	5.5
Barium	1,500	14,000	870,000	5,500	690,000	14.4	125	42.6	142
Beryllium	22	410	44,000	160	1,300	<0.5	0.6	<0.5	1.1
Cadmium	5.2	200	59,000	78	1,800	<0.5	<0.5	<0.5	<0.5
Calcium	---	---	---	---	---	884	7710	79500	5180
Chromium	21	4100	690	230	270	6.4	18	12.7	26.3
Cobalt	20	12000	---	4,700	---	2.9	7.6	9.1	12.9
Copper	2,900	8,200	---	2,900	---	6.4	19.6	13.5	25.7
Iron	15,000 / 15,900	---	---	---	---	9410	19800	12500	23600
Lead	107	700	---	400	---	2.9	22.6	6.6	22.2
Magnesium	325,000	730,000	---	325,000	---	1170	5160	39100	5480
Manganese	630 / 636	4100	8,700	1,600	---	51.6	630	503	604
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	8.2	16	17.9	32
Potassium	---	---	---	---	---	372	2290	1600	1150
Selenium	1.3	1000	---	390	---	<1.0	<1.0	<1.0	<1.0
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<0.2
Sodium	---	---	---	---	---	<50	583	257	1390
Thallium	2.6	160	---	6.3	---	<1.0	<1.0	<1.0	<1.0
Vanadium	550	1400	---	550	---	17.2	33.9	18.2	40.1
Zinc	5,100	61,000	---	23,000	---	15.9	54.6	27.2	68.7
TCLP Metals, mg/L		Class I Groundwater ^{d/}							
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<0.005	<0.005	<0.005	<0.005
Cobalt			1			<0.1	<0.1	<0.1	<0.1
Copper			0.65			<0.1	<0.1	<0.1	<0.1
Iron			5			<0.1	<0.1	<0.1	0.1
Lead			0.0075			<0.005	<0.005	<0.005	<0.005
Manganese			0.15			<0.1	<0.1	1.4	<0.1
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005
Zinc			5			<0.1	<0.1	<0.1	<0.1
SPLP Metals, mg/L		Class I Groundwater ^{d/}							
Arsenic			0.05			0.033	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Chromium			0.1			0.053	0.019	0.008	0.118
Cobalt			1			<0.1	<0.1	<0.1	<0.1
Copper			0.65			0.048	0.015	0.008	0.074
Iron			5			54.6	14.7	6	79.7
Lead			0.0075			0.014	0.006	<0.005	0.029
Manganese			0.15			0.3	<0.1	<0.1	0.3
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005
Zinc			5			0.1	<0.1	<0.1	0.2

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

^{a/} Soil reference concentrations from MAC table. Background values for MSA counties are included as applicable. Organic Soil Reference Concentrations (XX.XX / XX.XX / XX.XX) Include the Most Stringent Values from the MAC Table / The Chicago Corporate Limit / and The MSA County Excluding Chicago Values From the MAC Table. Inorganic Soil Reference Concentrations (xx.xx / xx.xx) Include the Most Stringent values from the MAC Table / and the MSA County Value From the MAC Table as Applicable.

^{b/} Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

^{c/} Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

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

When comparing results to the Soil Remediation Objectives, IDOT compares to the most stringent of the ingestion or inhalation exposure route value.

Bold indicates concentration detected

Shaded values indicate concentration exceeds reference concentration

LPC-663 TABLE (Page 22 of 31)
 UNRESTRICTED
 IDOT, District One
 IL 47/IL 176 at Pleasant Valley Road
 Lakewood, McHenry County, Illinois
 BDE Sequence No.: 18785B
 PTB: 199-014/HH-2, Work Order No.: 5

Boring ID	Soil Reference Concentrations ^{a/}	Soil Remediation Objective for Construction Workers ^{b/}		Soil Remediation Objective for Residential Exposure ^{c/}		3919-COV-48-04	3919-COV-48-06	3919-COV-48-06	3919-COV-49-09	
		Sample Depth, ft	Sample Date	Excavation Area(s) [ISGS Site No.(s)]	Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	(5-10)	(0-5)
4/11/2022	4/7/2022								4/7/2022	4/11/2022
Parameter										
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.84	8.97	8.31	8.19	
PID Readings (ppm)						0.0	0.0	0.0	0.0	
VOCs, mg/kg	NO EXCEEDANCES									
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<0.2	<0.2	
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<0.005	<0.005	
SVOCs, mg/kg	NO EXCEEDANCES									
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33	
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33	
Pyrene	2,300	61,000	61,000	2,300	---	<0.33	<0.33	<0.33	<0.33	
Total Metals, mg/kg										
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0	
Arsenic	11.3 / 13	61	25,000	---	750	3.8	6.9	4.8	4.6	
Barium	1,500	14,000	870,000	5,500	690,000	34.8	26.6	22.7	66.7	
Beryllium	22	410	44,000	160	1,300	<0.5	<0.5	<0.5	0.6	
Cadmium	5.2	200	59,000	78	1,800	<0.5	<0.5	<0.5	<0.5	
Calcium	---	---	---	---	---	98300	90300	85400	2680	
Chromium	21	4100	690	230	270	14.3	14.7	14	19.7	
Cobalt	20	12000	---	4,700	---	6.3	11.6	5	12.9	
Copper	2,900	8,200	---	2,900	---	16.8	18.4	20.9	20.4	
Iron	15,000 / 15,900	---	---	---	---	14000	17900	17800	18200	
Lead	107	700	---	400	---	5.8	8.6	9.8	18.3	
Magnesium	325,000	730,000	---	325,000	---	48700	46400	46100	3630	
Manganese	630 / 636	4100	8,700	1,600	---	333	399	346	109	
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05	
Nickel	100	4100	440,000	1,600	13,000	17.9	21	19.3	24.9	
Potassium	---	---	---	---	---	1770	2360	2230	1660	
Selenium	1.3	1000	---	390	---	<1.0	<1.0	<1.0	<1.0	
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<0.2	
Sodium	---	---	---	---	---	531	813	317	1650	
Thallium	2.6	160	---	6.3	---	<1.0	<1.0	<1.0	<1.0	
Vanadium	550	1400	---	550	---	20.4	20.3	16.9	30.1	
Zinc	5,100	61,000	---	23,000	---	38.4	36.4	40.8	59.1	
TCLP Metals, mg/L	Class I Groundwater ^{d/}									
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010	
Barium			2			<1.0	<1.0	<1.0	<1.0	
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	
Chromium			0.1			<0.005	<0.005	<0.005	<0.005	
Cobalt			1			<0.1	<0.1	<0.1	<0.1	
Copper			0.65			<0.1	<0.1	<0.1	<0.1	
Iron			5			<0.1	<0.1	<0.1	0.4	
Lead			0.0075			<0.005	<0.005	<0.005	<0.005	
Manganese			0.15			0.9	0.4	1	7.7	
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	
Silver			0.05			<0.005	<0.005	<0.005	<0.005	
Zinc			5			<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	
Barium			2			<1.0	<1.0	<1.0	<1.0	
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	
Chromium			0.1			0.011	0.019	<0.005	0.012	
Cobalt			1			<0.1	<0.1	<0.1	<0.1	
Copper			0.65			0.01	0.016	<0.005	0.014	
Iron			5			8.3	17.2	0.3	10	
Lead			0.0075			<0.005	<0.005	<0.005	0.015	
Manganese			0.15			<0.1	<0.1	<0.1	<0.1	
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	
Silver			0.05			<0.005	<0.005	<0.005	<0.005	
Zinc			5			<0.1	<0.1	<0.1	<0.1	

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

^{a/} Soil reference concentrations from MAC table. Background values for MSA counties are included as applicable. Organic Soil Reference Concentrations (XX.XX / XX.XX / XX.XX) Include the Most Stringent Values from the MAC Table / The Chicago Corporate Limit / and The MSA County Excluding Chicago Values From the MAC Table. Inorganic Soil Reference Concentrations (xx.xx / xx.xx) Include the Most Stringent values from the MAC Table / and the MSA County Value From the MAC Table as Applicable.

^{b/} Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

^{c/} Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

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

When comparing results to the Soil Remediation Objectives, IDOT compares to the most stringent of the ingestion or inhalation exposure route value.

Bold indicates concentration detected

Shaded values indicate concentration exceeds reference concentration

LPC-663 TABLE (Page 23 of 31)
 UNRESTRICTED
 IDOT, District One
 IL 47/IL 176 at Pleasant Valley Road
 Lakewood, McHenry County, Illinois
 BDE Sequence No.: 18785B
 PTB: 199-014/HH-2, Work Order No.: 5

Boring ID	Soil Reference Concentrations ^{a/}	Soil Remediation Objective for Construction Workers ^{b/}		Soil Remediation Objective for Residential Exposure ^{c/}		3919-COV-49-09	3919-COV-50-02	3919-COV-50-02	3919-COV-50-03	
		Sample Depth, ft	Sample Date	Excavation Area(s) [ISGS Site No.(s)]	Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	(5-10)	(0-5)
4/11/2022	4/12/2022								4/12/2022	4/12/2022
Parameter										
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.11	8.47	8.98	8.65	
PID Readings (ppm)						0.0	0.0	0.0	0.0	
VOCs, mg/kg	NO EXCEEDANCES									
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<0.2	<0.2	
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<0.005	<0.005	
SVOCs, mg/kg	NO EXCEEDANCES									
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33	
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33	
Pyrene	2,300	61,000	61,000	2,300	---	<0.33	<0.33	<0.33	<0.33	
Total Metals, mg/kg										
Antimony	5	82	---	31	---	1.1	<1.0	<1.0	<1.0	
Arsenic	11.3 / 13	61	25,000	---	750	3.9	4.6	5.4	4.8	
Barium	1,500	14,000	870,000	5,500	690,000	42.6	30.3	23.4	30.8	
Beryllium	22	410	44,000	160	1,300	<0.5	<0.5	<0.5	<0.5	
Cadmium	5.2	200	59,000	78	1,800	<0.5	<0.5	<0.5	<0.5	
Calcium	---	---	---	---	---	62700	120000	74100	92400	
Chromium	21	4100	690	230	270	15.2	13.6	14.8	13.4	
Cobalt	20	12000	---	4,700	---	9.6	7.5	6.5	9.2	
Copper	2,900	8,200	---	2,900	---	18.9	16.7	21.1	17.3	
Iron	15,000 / 15,900	---	---	---	---	16200	15500	17000	14900	
Lead	107	700	---	400	---	10.6	8.5	10.9	8.6	
Magnesium	325,000	730,000	---	325,000	---	36400	61700	37900	49200	
Manganese	630 / 636	4100	8,700	1,600	---	293	834	323	424	
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05	
Nickel	100	4100	440,000	1,600	13,000	22	20.7	19.9	24.9	
Potassium	---	---	---	---	---	974	1870	1910	1900	
Selenium	1.3	1000	---	390	---	<1.0	<1.0	<1.0	<1.0	
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<0.2	
Sodium	---	---	---	---	---	921	814	600	868	
Thallium	2.6	160	---	6.3	---	<1.0	<1.0	<1.0	<1.0	
Vanadium	550	1400	---	550	---	25.8	18.4	18.9	18.5	
Zinc	5,100	61,000	---	23,000	---	39.4	34.6	45.1	35.3	
TCLP Metals, mg/L	Class I Groundwater ^{d/}									
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010	
Barium			2			<1.0	<1.0	<1.0	<1.0	
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	
Chromium			0.1			<0.005	<0.005	<0.005	<0.005	
Cobalt			1			<0.1	<0.1	<0.1	<0.1	
Copper			0.65			<0.1	<0.1	<0.1	<0.1	
Iron			5			<0.1	<0.1	<0.1	<0.1	
Lead			0.0075			<0.005	<0.005	<0.005	<0.005	
Manganese			0.15			1.2	3	0.7	0.4	
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	
Silver			0.05			<0.005	<0.005	<0.005	<0.005	
Zinc			5			<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	
Barium			2			<1.0	<1.0	<1.0	<1.0	
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	
Chromium			0.1			<0.005	0.006	0.019	0.029	
Cobalt			1			<0.1	<0.1	<0.1	<0.1	
Copper			0.65			0.005	0.006	0.025	0.033	
Iron			5			1.7	5.3	18	28.8	
Lead			0.0075			<0.005	<0.005	0.006	0.01	
Manganese			0.15			<0.1	<0.1	<0.1	0.1	
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	
Silver			0.05			<0.005	<0.005	<0.005	<0.005	
Zinc			5			<0.1	<0.1	<0.1	<0.1	

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

^{a/} Soil reference concentrations from MAC table. Background values for MSA counties are included as applicable. Organic Soil Reference Concentrations (XX.XX / XX.XX / XX.XX) Include the Most Stringent Values from the MAC Table / The Chicago Corporate Limit / and The MSA County Excluding Chicago Values From the MAC Table. Inorganic Soil Reference Concentrations (xx.xx / xx.xx) Include the Most Stringent values from the MAC Table / and the MSA County Value From the MAC Table as Applicable.

^{b/} Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

^{c/} Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

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

When comparing results to the Soil Remediation Objectives, IDOT compares to the most stringent of the ingestion or inhalation exposure route value.

Bold indicates concentration detected

Shaded values indicate concentration exceeds reference concentration

LPC-663 TABLE (Page 24 of 31)
 UNRESTRICTED
 IDOT, District One
 IL 47/IL 176 at Pleasant Valley Road
 Lakewood, McHenry County, Illinois
 BDE Sequence No.: 18785B
 PTB: 199-014/HH-2, Work Order No.: 5

Boring ID	Soil Reference Concentrations ^{a/}	Soil Remediation Objective for Construction Workers ^{b/}		Soil Remediation Objective for Residential Exposure ^{c/}		3919-COV-50-03	3919-COV-51-03	Dup-16 (3919-COV-51-03)	3919-COV-51-04
						(5-8.5)	(0-4)	(0-4)	(0-5)
Sample Depth, ft						4/12/2022	4/7/2022	4/7/2022	4/7/2022
Sample Date									
Excavation Area(s) [ISGS Site No.(s)]		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	3919-COV-50	3919-COV-51	3919-COV-51	3919-COV-51
Parameter									
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.4	8.95	8.99	8.32
PID Readings (ppm)						0.0	0.0	0.0	0.0
VOCs, mg/kg		NO EXCEEDANCES							
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<0.2	<0.2
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<0.005	<0.005
SVOCs, mg/kg		NO EXCEEDANCES							
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Pyrene	2,300	61,000	61,000	2,300	---	<0.33	<0.33	<0.33	<0.33
Total Metals, mg/kg									
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	8.2	4.7	4.4	1.3
Barium	1,500	14,000	870,000	5,500	690,000	21.7	41.5	37.4	44.6
Beryllium	22	410	44,000	160	1,300	<0.5	<0.5	<0.5	<0.5
Cadmium	5.2	200	59,000	78	1,800	<0.5	<0.5	<0.5	<0.5
Calcium	---	---	---	---	---	65800	44100	30400	75700
Chromium	21	4100	690	230	270	13.7	15.3	13.3	15.4
Cobalt	20	12000	---	4,700	---	8.7	8.8	6.1	4.4
Copper	2,900	8,200	---	2,900	---	25.7	17.1	14.4	12.6
Iron	15,000 / 15,900	---	---	---	---	19700	17800	15200	13300
Lead	107	700	---	400	---	13.6	10.4	9.2	7.2
Magnesium	325,000	730,000	---	325,000	---	33300	19100	17200	28300
Manganese	630 / 636	4100	8,700	1,600	---	313	394	321	245
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	21.3	17.2	15.2	15.7
Potassium	---	---	---	---	---	1810	1400	838	1870
Selenium	1.3	1000	---	390	---	<1.0	<1.0	<1.0	<1.0
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<0.2
Sodium	---	---	---	---	---	826	96	74	264
Thallium	2.6	160	---	6.3	---	<1.0	<1.0	<1.0	<1.0
Vanadium	550	1400	---	550	---	18.1	25.6	21.6	16.8
Zinc	5,100	61,000	---	23,000	---	56.2	33.9	32.2	28.2
TCLP Metals, mg/L		Class I Groundwater ^{d/}							
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<0.005	<0.005	<0.005	<0.005
Cobalt			1			<0.1	<0.1	<0.1	<0.1
Copper			0.65			<0.1	<0.1	<0.1	<0.1
Iron			5			<0.1	<0.1	<0.1	<0.1
Lead			0.0075			<0.005	<0.005	<0.005	<0.005
Manganese			0.15			0.7	0.5	0.4	2.6
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005
Zinc			5			<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
Barium			2			<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Chromium			0.1			0.028	0.011	<0.005	0.014
Cobalt			1			<0.1	<0.1	<0.1	<0.1
Copper			0.65			0.036	0.008	0.006	0.01
Iron			5			30.5	9.2	3	10.9
Lead			0.0075			0.013	<0.005	<0.005	<0.005
Manganese			0.15			0.1	<0.1	<0.1	<0.1
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005
Zinc			5			<0.1	<0.1	<0.1	<0.1

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

^{a/} Soil reference concentrations from MAC table. Background values for MSA counties are included as applicable. Organic Soil Reference Concentrations (XX.XX / XX.XX / XX.XX) Include the Most Stringent Values from the MAC Table / The Chicago Corporate Limit / and The MSA County Excluding Chicago Values From the MAC Table. Inorganic Soil Reference Concentrations (xx.xx / xx.xx) Include the Most Stringent values from the MAC Table / and the MSA County Value From the MAC Table as Applicable.

^{b/} Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

^{c/} Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

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

When comparing results to the Soil Remediation Objectives, IDOT compares to the most stringent of the ingestion or inhalation exposure route value.

Bold indicates concentration detected

Shaded values indicate concentration exceeds reference concentration

LPC-663 TABLE (Page 25 of 31)
 UNRESTRICTED
 IDOT, District One
 IL 47/IL 176 at Pleasant Valley Road
 Lakewood, McHenry County, Illinois
 BDE Sequence No.: 18785B
 PTB: 199-014/HH-2, Work Order No.: 5

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/}		3919-COV-51-04	3919-COV-51-04	3919-COV-51-04	3919-COV-51-04
						(5-10)	(10-15)	(15-20)	(20-25)
						4/7/2022	4/7/2022	4/7/2022	4/7/2022
		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	3919-COV-51	3919-COV-51	3919-COV-51	3919-COV-51
Parameter									
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.55	8.87	8.88	8.28
PID Readings (ppm)						0.0	0.0	0.0	0.0
VOCs, mg/kg		NO EXCEEDANCES							
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<0.2	<0.2
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<0.005	<0.005
SVOCs, mg/kg		NO EXCEEDANCES							
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Pyrene	2,300	61,000	61,000	2,300	---	<0.33	<0.33	<0.33	<0.33
Total Metals, mg/kg									
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	3.8	5.7	<1.0	1.9
Barium	1,500	14,000	870,000	5,500	690,000	19.2	55.3	11.6	18.1
Beryllium	22	410	44,000	160	1,300	<0.5	<0.5	<0.5	<0.5
Cadmium	5.2	200	59,000	78	1,800	<0.5	<0.5	<0.5	<0.5
Calcium	---	---	---	---	---	149000	85600	125000	58600
Chromium	21	4100	690	230	270	11.4	15.2	5	7.3
Cobalt	20	12000	---	4,700	---	5.3	9.9	2.3	3.4
Copper	2,900	8,200	---	2,900	---	17.8	21.7	5.9	8.6
Iron	15,000 / 15,900	---	---	---	---	14500	19400	5360	8160
Lead	107	700	---	400	---	6.5	13.3	2.7	3.5
Magnesium	325,000	730,000	---	325,000	---	72400	45000	64500	28300
Manganese	630 / 636	4100	8,700	1,600	---	600	424	172	227
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	15.5	24.5	5.7	8.5
Potassium	---	---	---	---	---	1470	2570	631	766
Selenium	1.3	1000	---	390	---	<1.0	<1.0	<1.0	<1.0
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<0.2
Sodium	---	---	---	---	---	321	186	249	139
Thallium	2.6	160	---	6.3	---	<1.0	<1.0	<1.0	<1.0
Vanadium	550	1400	---	550	---	17.6	18.9	9.4	11
Zinc	5,100	61,000	---	23,000	---	28.5	37.9	12.6	19.6
TCLP Metals, mg/L		Class I Groundwater ^{d/}							
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<0.005	<0.005	<0.005	<0.005
Cobalt			1			<0.1	<0.1	<0.1	<0.1
Copper			0.65			<0.1	<0.1	<0.1	<0.1
Iron			5			<0.1	<0.1	<0.1	<0.1
Lead			0.0075			<0.005	<0.005	<0.005	<0.005
Manganese			0.15			1	1.8	2.1	1.9
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005
Zinc			5			<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
Barium			2			<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Chromium			0.1			0.015	<0.005	<0.005	<0.005
Cobalt			1			<0.1	<0.1	<0.1	<0.1
Copper			0.65			0.012	<0.005	<0.005	<0.005
Iron			5			11.6	0.8	0.9	0.5
Lead			0.0075			<0.005	<0.005	<0.005	<0.005
Manganese			0.15			<0.1	<0.1	<0.1	<0.1
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005
Zinc			5			<0.1	<0.1	<0.1	<0.1

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

^{a/} Soil reference concentrations from MAC table. Background values for MSA counties are included as applicable. Organic Soil Reference Concentrations (XX.XX / XX.XX / XX.XX) Include the Most Stringent Values from the MAC Table / The Chicago Corporate Limit / and The MSA County Excluding Chicago Values From the MAC Table. Inorganic Soil Reference Concentrations (xx.xx / xx.xx) Include the Most Stringent values from the MAC Table / and the MSA County Value From the MAC Table as Applicable.


^{b/} Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

^{c/} Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

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

When comparing results to the Soil Remediation Objectives, IDOT compares to the most stringent of the ingestion or inhalation exposure route value.

Bold indicates concentration detected

 Shaded values indicate concentration exceeds reference concentration

LPC-663 TABLE (Page 26 of 31)
 UNRESTRICTED
 IDOT, District One
 IL 47/IL 176 at Pleasant Valley Road
 Lakewood, McHenry County, Illinois
 BDE Sequence No.: 18785B
 PTB: 199-014/HH-2, Work Order No.: 5

Boring ID	Soil Reference Concentrations ^{a/}	Soil Remediation Objective for Construction Workers ^{b/}		Soil Remediation Objective for Residential Exposure ^{c/}		3919-COV-51-05	3919-COV-51-06	3919-COV-51-07	Dup-34 (3919-COV-51-07)
		Sample Depth, ft	Sample Date	Excavation Area(s) [ISGS Site No.(s)]	Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	(0-4)
4/7/2022	4/14/2022								4/14/2022
Parameter									
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.5	8.61	8.95	8.25
PID Readings (ppm)						0.0	0.0	0.0	0.0
VOCs, mg/kg		NO EXCEEDANCES							
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<0.2	<0.2
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<0.005	<0.005
SVOCs, mg/kg		NO EXCEEDANCES							
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Pyrene	2,300	61,000	61,000	2,300	---	<0.33	<0.33	<0.33	<0.33
Total Metals, mg/kg									
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	5.9	6	5.5	9.1
Barium	1,500	14,000	870,000	5,500	690,000	59.6	59.4	74.1	92.9
Beryllium	22	410	44,000	160	1,300	0.7	0.5	0.6	0.8
Cadmium	5.2	200	59,000	78	1,800	<0.5	<0.5	<0.5	<0.5
Calcium	---	---	---	---	---	26800	13900	2840	3020
Chromium	21	4100	690	230	270	18	19.2	18.1	30.7
Cobalt	20	12000	---	4,700	---	10.1	11.6	9.5	14.9
Copper	2,900	8,200	---	2,900	---	18.6	20.6	15.1	29.6
Iron	15,000 / 15,900	---	---	---	---	20000	20600	19400	33800
Lead	107	700	---	400	---	9.9	12.2	14.8	18.7
Magnesium	325,000	730,000	---	325,000	---	19200	10700	3230	5340
Manganese	630 / 636	4100	8,700	1,600	---	518	537	584	494
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	25.1	30.9	21	30
Potassium	---	---	---	---	---	1180	1200	1080	1800
Selenium	1.3	1000	---	390	---	<1.0	<1.0	<1.0	<1.0
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<0.2
Sodium	---	---	---	---	---	446	616	1070	1730
Thallium	2.6	160	---	6.3	---	<1.0	<1.0	<1.0	<1.0
Vanadium	550	1400	---	550	---	25.8	28.6	31	45.5
Zinc	5,100	61,000	---	23,000	---	39.8	41.2	42.8	61.7
TCLP Metals, mg/L		Class I Groundwater ^{d/}							
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<0.005	<0.005	<0.005	<0.005
Cobalt			1			<0.1	<0.1	<0.1	<0.1
Copper			0.65			<0.1	<0.1	<0.1	<0.1
Iron			5			<0.1	<0.1	<0.1	<0.1
Lead			0.0075			<0.005	<0.005	<0.005	<0.005
Manganese			0.15			0.9	<0.1	<0.1	<0.1
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005
Zinc			5			<0.1	<0.1	<0.1	<0.1
SPLP Metals, mg/L		Class I Groundwater ^{d/}							
Arsenic			0.05			<0.010	0.024	<0.010	0.028
Barium			2			<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	0.005
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Chromium			0.1			0.009	0.101	0.04	0.134
Cobalt			1			<0.1	<0.1	<0.1	<0.1
Copper			0.65			0.015	0.091	0.025	0.114
Iron			5			6.6	99.1	35.3	137
Lead			0.0075			<0.005	0.035	0.014	0.039
Manganese			0.15			<0.1	0.5	0.3	0.6
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	0.1	<0.1	0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005
Zinc			5			<0.1	0.2	0.1	0.3

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

^{a/} Soil reference concentrations from MAC table. Background values for MSA counties are included as applicable. Organic Soil Reference Concentrations (XX.XX / XX.XX / XX.XX) Include the Most Stringent Values from the MAC Table / The Chicago Corporate Limit / and The MSA County Excluding Chicago Values From the MAC Table. Inorganic Soil Reference Concentrations (xx.xx / xx.xx) Include the Most Stringent values from the MAC Table / and the MSA County Value From the MAC Table as Applicable.

^{b/} Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

^{c/} Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

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

When comparing results to the Soil Remediation Objectives, IDOT compares to the most stringent of the ingestion or inhalation exposure route value.

Bold indicates concentration detected

Shaded values indicate concentration exceeds reference concentration

LPC-663 TABLE (Page 27 of 31)
 UNRESTRICTED
 IDOT, District One
 IL 47/IL 176 at Pleasant Valley Road
 Lakewood, McHenry County, Illinois
 BDE Sequence No.: 18785B
 PTB: 199-014/HH-2, Work Order No.: 5

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/}		3919-COV-51-09	3919-COV-51-10	3919-COV-53-02	3919-COV-53-02
		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	(0-4)	(0-4)	(0-5)	(5-10)
						4/14/2022	4/14/2022	4/12/2022	4/12/2022
						3919-COV-51	3919-COV-51	3919-COV-53	3919-COV-53
Parameter									
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.48	8.3	8.58	8.84
PID Readings (ppm)						0.0	0.0	0.0	0.0
VOCs, mg/kg	NO EXCEEDANCES								
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<0.2	<0.2
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<0.005	<0.005
SVOCs, mg/kg	NO EXCEEDANCES								
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33
Pyrene	2,300	61,000	61,000	2,300	---	<0.33	<0.33	<0.33	<0.33
Total Metals, mg/kg									
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0
Arsenic	11.3 / 13	61	25,000	---	750	9.2	6.2	4.4	1.2
Barium	1,500	14,000	870,000	5,500	690,000	64.4	50.9	30	9.5
Beryllium	22	410	44,000	160	1,300	0.9	0.6	<0.5	<0.5
Cadmium	5.2	200	59,000	78	1,800	<0.5	<0.5	<0.5	<0.5
Calcium	---	---	---	---	---	4360	1460	64600	70300
Chromium	21	4100	690	230	270	26	25	74.1	4.9
Cobalt	20	12000	---	4,700	---	14.1	11.8	7.5	2.5
Copper	2,900	8,200	---	2,900	---	26.9	24.9	19.3	6.6
Iron	15,000 / 15,900	---	---	---	---	29800	23600	14600	6020
Lead	107	700	---	400	---	19.5	12.1	302	2.7
Magnesium	325,000	730,000	---	325,000	---	6050	2780	33000	33900
Manganese	630 / 636	4100	8,700	1,600	---	419	472	364	192
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05
Nickel	100	4100	440,000	1,600	13,000	33.5	20.9	16.3	5.6
Potassium	---	---	---	---	---	1660	811	1220	454
Selenium	1.3	1000	---	390	---	<1.0	<1.0	<1.0	<1.0
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<0.2
Sodium	---	---	---	---	---	3000	2530	271	113
Thallium	2.6	160	---	6.3	---	<1.0	<1.0	<1.0	<1.0
Vanadium	550	1400	---	550	---	35.5	44.9	16.5	9.2
Zinc	5,100	61,000	---	23,000	---	57.5	41.9	45.3	15.3
TCLP Metals, mg/L	Class I Groundwater ^{d/}								
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Chromium			0.1			<0.005	<0.005	<0.005	<0.005
Cobalt			1			<0.1	<0.1	<0.1	<0.1
Copper			0.65			<0.1	<0.1	<0.1	<0.1
Iron			5			<0.1	<0.1	<0.1	<0.1
Lead			0.0075			<0.005	<0.005	<0.005	<0.005
Manganese			0.15			<0.1	<0.1	0.2	0.7
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			<0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005
Zinc			5			<0.1	<0.1	<0.1	<0.1
SPLP Metals, mg/L	Class I Groundwater ^{d/}								
Arsenic			0.05			0.028	0.019	<0.010	<0.010
Barium			2			<1.0	<1.0	<1.0	<1.0
Beryllium			0.004			0.005	<0.004	<0.004	<0.004
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005
Chromium			0.1			0.136	0.097	<0.005	0.007
Cobalt			1			<0.1	<0.1	<0.1	<0.1
Copper			0.65			0.113	0.107	<0.005	0.012
Iron			5			130	92.8	0.3	7.2
Lead			0.0075			0.035	0.023	<0.005	<0.005
Manganese			0.15			1	0.6	<0.1	0.1
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005
Nickel			0.1			0.1	<0.1	<0.1	<0.1
Selenium			0.05			<0.010	<0.010	<0.010	<0.010
Silver			0.05			<0.005	<0.005	<0.005	<0.005
Zinc			5			0.3	0.2	<0.1	<0.1

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

^{a/} Soil reference concentrations from MAC table. Background values for MSA counties are included as applicable. Organic Soil Reference Concentrations (XX.XX / XX.XX / XX.XX) Include the Most Stringent Values from the MAC Table / The Chicago Corporate Limit / and The MSA County Excluding Chicago Values From the MAC Table. Inorganic Soil Reference Concentrations (xx.xx / xx.xx) Include the Most Stringent values from the MAC Table / and the MSA County Value From the MAC Table as Applicable.

^{b/} Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

^{c/} Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

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

When comparing results to the Soil Remediation Objectives, IDOT compares to the most stringent of the ingestion or inhalation exposure route value.

Bold indicates concentration detected

Shaded values indicate concentration exceeds reference concentration

LPC-663 TABLE (Page 28 of 31)
 UNRESTRICTED
 IDOT, District One
 IL 47/IL 176 at Pleasant Valley Road
 Lakewood, McHenry County, Illinois
 BDE Sequence No.: 18785B
 PTB: 199-014/HH-2, Work Order No.: 5

Boring ID	Soil Reference Concentrations ^{a/}	Soil Remediation Objective for Construction Workers ^{b/}		Soil Remediation Objective for Residential Exposure ^{c/}		3919-COV-53-02	3919-COV-54-01	3919-COV-54-01	3919-COV-56-01	
		Sample Depth, ft	Sample Date	Excavation Area(s) [ISGS Site No.(s)]	Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	(10-15.5)	(0-3)
4/12/2022	4/12/2022								4/12/2022	4/14/2022
Parameter										
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.6	8.51	8.32	7.87	
PID Readings (ppm)						0.0	0.0	0.0	0.0	
VOCs, mg/kg	NO EXCEEDANCES									
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<0.2	<0.2	
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<0.005	<0.005	
SVOCs, mg/kg	NO EXCEEDANCES									
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33	
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33	
Pyrene	2,300	61,000	61,000	2,300	---	<0.33	<0.33	<0.33	<0.33	
Total Metals, mg/kg										
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0	
Arsenic	11.3 / 13	61	25,000	---	750	3	3.8	1.8	7.9	
Barium	1,500	14,000	870,000	5,500	690,000	10.7	38.1	41.7	105	
Beryllium	22	410	44,000	160	1,300	<0.5	<0.5	<0.5	0.9	
Cadmium	5.2	200	59,000	78	1,800	<0.5	<0.5	<0.5	<0.5	
Calcium	---	---	---	---	---	66100	40100	40000	3320	
Chromium	21	4100	690	230	270	5.7	13.5	13.4	28.2	
Cobalt	20	12000	---	4,700	---	3.1	8.4	4.6	12.9	
Copper	2,900	8,200	---	2,900	---	9.7	16.7	11.2	26.4	
Iron	15,000 / 15,900	---	---	---	---	6390	15600	15300	30000	
Lead	107	700	---	400	---	3	10.1	6.4	15.1	
Magnesium	325,000	730,000	---	325,000	---	30600	23200	24700	5120	
Manganese	630 / 636	4100	8,700	1,600	---	206	327	168	713	
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05	
Nickel	100	4100	440,000	1,600	13,000	7.3	18.1	13	32.9	
Potassium	---	---	---	---	---	643	1310	657	1640	
Selenium	1.3	1000	---	390	---	<1.0	<1.0	<1.0	<1.0	
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<0.2	
Sodium	---	---	---	---	---	116	1440	270	1360	
Thallium	2.6	160	---	6.3	---	<1.0	<1.0	<1.0	<1.0	
Vanadium	550	1400	---	550	---	9.4	22	29.4	44.2	
Zinc	5,100	61,000	---	23,000	---	13.8	36.2	22	58.5	
TCLP Metals, mg/L	Class I Groundwater ^{d/}									
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010	
Barium			2			<1.0	<1.0	<1.0	<1.0	
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	
Chromium			0.1			<0.005	<0.005	<0.005	<0.005	
Cobalt			1			<0.1	<0.1	<0.1	<0.1	
Copper			0.65			<0.1	<0.1	<0.1	<0.1	
Iron			5			<0.1	<0.1	<0.1	<0.1	
Lead			0.0075			<0.005	<0.005	<0.005	<0.005	
Manganese			0.15			2	5.6	2.6	0.1	
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	
Silver			0.05			<0.005	<0.005	<0.005	<0.005	
Zinc			5			<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	
Barium			2			<1.0	<1.0	<1.0	<1.0	
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	
Chromium			0.1			<0.005	0.022	0.007	0.062	
Cobalt			1			<0.1	<0.1	<0.1	<0.1	
Copper			0.65			<0.005	0.023	<0.005	0.042	
Iron			5			0.6	22.5	5.7	51.9	
Lead			0.0075			<0.005	0.014	<0.005	<0.005	
Manganese			0.15			<0.1	0.1	<0.1	0.2	
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	
Silver			0.05			<0.005	<0.005	<0.005	<0.005	
Zinc			5			<0.1	<0.1	<0.1	0.1	

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

^{a/} Soil reference concentrations from MAC table. Background values for MSA counties are included as applicable.
 Organic Soil Reference Concentrations (XX.XX / XX.XX / XX.XX) Include the Most Stringent Values from the MAC Table / The Chicago Corporate Limit / and The MSA County Excluding Chicago Values From the MAC Table.
 Inorganic Soil Reference Concentrations (xx.xx / xx.xx) Include the Most Stringent values from the MAC Table / and the MSA County Value From the MAC Table as Applicable.


^{b/} Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

^{c/} Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

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

When comparing results to the Soil Remediation Objectives, IDOT compares to the most stringent of the ingestion or inhalation exposure route value.

Bold indicates concentration detected

 Shaded values indicate concentration exceeds reference concentration

LPC-663 TABLE (Page 29 of 31)
 UNRESTRICTED
 IDOT, District One
 IL 47/IL 176 at Pleasant Valley Road
 Lakewood, McHenry County, Illinois
 BDE Sequence No.: 18785B
 PTB: 199-014/HH-2, Work Order No.: 5

Boring ID	Soil Reference Concentrations ^{a/}	Soil Remediation Objective for Construction Workers ^{b/}		Soil Remediation Objective for Residential Exposure ^{c/}		Dup-33 (3919-COV-56-01)	3919-COV-56-02	3919-COV-56-03	3919-COV-56-04	
		Sample Depth, ft	Sample Date	Excavation Area(s) [ISGS Site No.(s)]	Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	(0-3)	(0-3)
4/14/2022	4/14/2022								4/14/2022	4/14/2022
Parameter										
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	7.47	8.04	7.95	8.1	
PID Readings (ppm)						0.0	0.0	0.0	0.0	
VOCs, mg/kg	NO EXCEEDANCES									
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<0.2	<0.2	
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<0.005	<0.005	
SVOCs, mg/kg	NO EXCEEDANCES									
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33	
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33	
Pyrene	2,300	61,000	61,000	2,300	---	<0.33	<0.33	<0.33	<0.33	
Total Metals, mg/kg										
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0	
Arsenic	11.3 / 13	61	25,000	---	750	7.7	8	7.9	4.6	
Barium	1,500	14,000	870,000	5,500	690,000	117	94.6	107	74	
Beryllium	22	410	44,000	160	1,300	0.9	0.9	1	0.6	
Cadmium	5.2	200	59,000	78	1,800	<0.5	<0.5	<0.5	<0.5	
Calcium	---	---	---	---	---	3480	2870	3410	2490	
Chromium	21	4100	690	230	270	26.9	28.8	29.6	20.3	
Cobalt	20	12000	---	4,700	---	18.3	12.5	14.6	4.1	
Copper	2,900	8,200	---	2,900	---	23.7	27.1	29.6	12.2	
Iron	15,000 / 15,900	---	---	---	---	28800	29900	30500	20000	
Lead	107	700	---	400	---	17.5	14.5	15.7	6.9	
Magnesium	325,000	730,000	---	325,000	---	4530	5620	5970	3300	
Manganese	630 / 636	4100	8,700	1,600	---	1230	562	755	145	
Mercury	0.89	61	0.1	23	10	<0.05	0.19	<0.05	<0.05	
Nickel	100	4100	440,000	1,600	13,000	31.9	36.9	41.8	16	
Potassium	---	---	---	---	---	1480	2030	2130	853	
Selenium	1.3	1000	---	390	---	<1.0	<1.0	<1.0	<1.0	
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<0.2	
Sodium	---	---	---	---	---	1490	1670	2140	1070	
Thallium	2.6	160	---	6.3	---	<1.0	<1.0	<1.0	<1.0	
Vanadium	550	1400	---	550	---	44.7	38.4	38.7	33.6	
Zinc	5,100	61,000	---	23,000	---	54.6	60.2	62.7	38.1	
TCLP Metals, mg/L	Class I Groundwater ^{d/}									
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010	
Barium			2			<1.0	<1.0	<1.0	<1.0	
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	
Chromium			0.1			<0.005	<0.005	<0.005	<0.005	
Cobalt			1			<0.1	<0.1	<0.1	<0.1	
Copper			0.65			<0.1	<0.1	<0.1	<0.1	
Iron			5			<0.1	<0.1	<0.1	<0.1	
Lead			0.0075			<0.005	<0.005	<0.005	<0.005	
Manganese			0.15			0.1	<0.1	<0.1	<0.1	
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	
Silver			0.05			<0.005	<0.005	<0.005	<0.005	
Zinc			5			<0.1	<0.1	<0.1	<0.1	
SPLP Metals, mg/L	Class I Groundwater ^{d/}									
Arsenic			0.05			<0.010	0.012	0.012	<0.010	
Barium			2			<1.0	<1.0	<1.0	<1.0	
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	
Chromium			0.1			0.057	0.094	0.082	0.05	
Cobalt			1			<0.1	<0.1	<0.1	<0.1	
Copper			0.65			0.037	0.065	0.059	0.022	
Iron			5			46.2	77.1	68	40.7	
Lead			0.0075			<0.005	0.01	0.009	0.005	
Manganese			0.15			0.2	0.3	0.3	0.2	
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	
Silver			0.05			<0.005	<0.005	<0.005	<0.005	
Zinc			5			0.1	0.2	0.2	<0.1	

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

^{a/} Soil reference concentrations from MAC table. Background values for MSA counties are included as applicable. Organic Soil Reference Concentrations (XX.XX / XX.XX / XX.XX) Include the Most Stringent Values from the MAC Table / The Chicago Corporate Limit / and The MSA County Excluding Chicago Values From the MAC Table. Inorganic Soil Reference Concentrations (xx.xx / xx.xx) Include the Most Stringent values from the MAC Table / and the MSA County Value From the MAC Table as Applicable.


^{b/} Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

^{c/} Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

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

When comparing results to the Soil Remediation Objectives, IDOT compares to the most stringent of the ingestion or inhalation exposure route value.

Bold indicates concentration detected

 Shaded values indicate concentration exceeds reference concentration

LPC-663 TABLE (Page 30 of 31)
 UNRESTRICTED
 IDOT, District One
 IL 47/IL 176 at Pleasant Valley Road
 Lakewood, McHenry County, Illinois
 BDE Sequence No.: 18785B
 PTB: 199-014/HH-2, Work Order No.: 5

Boring ID	Soil Reference Concentrations ^{a/}	Soil Remediation Objective for Construction Workers ^{b/}		Soil Remediation Objective for Residential Exposure ^{c/}		3919-COV-56-05	3919-COV-57-06	3919-COV-59-05	Dup-26 (3919-COV-59-05)	
		Sample Depth, ft	Sample Date	Excavation Area(s) [ISGS Site No.(s)]	Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	(0-3)	(0-4.5)
4/14/2022	4/14/2022								4/12/2022	4/12/2022
Parameter										
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.56	8.14	8.26	8.37	
PID Readings (ppm)						0.0	0.0	0.0	0.0	
VOCs, mg/kg	NO EXCEEDANCES									
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	<0.2	<0.2	
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	<0.005	<0.005	
SVOCs, mg/kg	NO EXCEEDANCES									
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	<0.33	<0.33	
Phenanthrene	---	---	---	---	---	<0.33	<0.33	<0.33	<0.33	
Pyrene	2,300	61,000	61,000	2,300	---	<0.33	<0.33	<0.33	<0.33	
Total Metals, mg/kg										
Antimony	5	82	---	31	---	<1.0	<1.0	<1.0	<1.0	
Arsenic	11.3 / 13	61	25,000	---	750	5.1	3.6	3.8	4.2	
Barium	1,500	14,000	870,000	5,500	690,000	62.7	64.1	20.7	31	
Beryllium	22	410	44,000	160	1,300	0.5	<0.5	<0.5	0.5	
Cadmium	5.2	200	59,000	78	1,800	<0.5	<0.5	<0.5	<0.5	
Calcium	---	---	---	---	---	5750	34500	92500	80200	
Chromium	21	4100	690	230	270	16.9	16.1	11.9	17.8	
Cobalt	20	12000	---	4,700	---	12	7	5.5	11.7	
Copper	2,900	8,200	---	2,900	---	16.2	21.2	16.2	24.6	
Iron	15,000 / 15,900	---	---	---	---	18700	16700	13600	19300	
Lead	107	700	---	400	---	14.1	47	6.9	10.3	
Magnesium	325,000	730,000	---	325,000	---	3870	19800	48500	40800	
Manganese	630 / 636	4100	8,700	1,600	---	504	424	371	401	
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	<0.05	<0.05	
Nickel	100	4100	440,000	1,600	13,000	18.9	14.7	17	25.9	
Potassium	---	---	---	---	---	1240	1170	1700	2470	
Selenium	1.3	1000	---	390	---	<1.0	<1.0	<1.0	<1.0	
Silver	4.4	1000	---	390	---	<0.2	<0.2	<0.2	<0.2	
Sodium	---	---	---	---	---	1830	2320	476	517	
Thallium	2.6	160	---	6.3	---	<1.0	<1.0	<1.0	<1.0	
Vanadium	550	1400	---	550	---	30.2	29.7	16.6	24.6	
Zinc	5,100	61,000	---	23,000	---	41.5	51.1	30.8	43.2	
TCLP Metals, mg/L	Class I Groundwater ^{d/}									
Arsenic			0.05			<0.010	<0.010	<0.010	<0.010	
Barium			2			<1.0	<1.0	<1.0	<1.0	
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	
Chromium			0.1			<0.005	<0.005	<0.005	<0.005	
Cobalt			1			<0.1	<0.1	<0.1	<0.1	
Copper			0.65			<0.1	<0.1	<0.1	<0.1	
Iron			5			<0.1	<0.1	0.1	1.3	
Lead			0.0075			<0.005	<0.005	<0.005	<0.005	
Manganese			0.15			<0.1	4.5	0.7	0.8	
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	
Silver			0.05			<0.005	<0.005	<0.005	<0.005	
Zinc			5			<0.1	<0.1	<0.1	<0.1	
SPLP Metals, mg/L	Class I Groundwater ^{d/}									
Arsenic			0.05			0.013	<0.010	<0.010	<0.010	
Barium			2			<1.0	<1.0	<1.0	<1.0	
Beryllium			0.004			<0.004	<0.004	<0.004	<0.004	
Cadmium			0.005			<0.005	<0.005	<0.005	<0.005	
Chromium			0.1			0.061	0.02	0.01	0.012	
Cobalt			1			<0.1	<0.1	<0.1	<0.1	
Copper			0.65			0.045	0.024	0.01	0.011	
Iron			5			56.7	16.2	7.7	9.8	
Lead			0.0075			0.017	0.019	<0.005	<0.005	
Manganese			0.15			0.4	0.1	<0.1	<0.1	
Mercury			0.002			<0.0005	<0.0005	<0.0005	<0.0005	
Nickel			0.1			<0.1	<0.1	<0.1	<0.1	
Selenium			0.05			<0.010	<0.010	<0.010	<0.010	
Silver			0.05			<0.005	<0.005	<0.005	<0.005	
Zinc			5			0.1	<0.1	<0.1	<0.1	

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

^{a/} Soil reference concentrations from MAC table. Background values for MSA counties are included as applicable. Organic Soil Reference Concentrations (XX.XX / XX.XX / XX.XX) include the Most Stringent Values from the MAC Table / The Chicago Corporate Limit / and The MSA County Excluding Chicago Values From the MAC Table. Inorganic Soil Reference Concentrations (xx.xx / xx.xx) include the Most Stringent values from the MAC Table / and the MSA County Value From the MAC Table as Applicable.

^{b/} Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

^{c/} Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

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

When comparing results to the Soil Remediation Objectives, IDOT compares to the most stringent of the ingestion or inhalation exposure route value.

Bold indicates concentration detected

Shaded values indicate concentration exceeds reference concentration

LPC-663 TABLE (Page 31 of 31)
 UNRESTRICTED
 IDOT, District One
 IL 47/IL 176 at Pleasant Valley Road
 Lakewood, McHenry County, Illinois
 BDE Sequence No.: 18785B
 PTB: 199-014/HH-2, Work Order No.: 5

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/}		3919-COV-59-05	3919-COV-59-05	
						(5-10)	(10-12)	
						4/12/2022	4/12/2022	
		Ingestion Exposure Route	Inhalation Exposure Route	Ingestion Exposure Route	Inhalation Exposure Route	3919-COV-59	3919-COV-59	
Parameter								
Laboratory soil pH (s.u.)	6.25 - 9.0	---	---	---	---	8.22	8.24	
PID Readings (ppm)						0.0	0.0	
VOCs, mg/kg	NO EXCEEDANCES							
Acetone	25	---	100,000	70,000	100,000	<0.2	<0.2	
Toluene	12	410,000	42	16,000	650	<0.005	<0.005	
SVOCs, mg/kg	NO EXCEEDANCES							
Fluoranthene	3,100	82,000	---	3,100	---	<0.33	<0.33	
Phenanthrene	---	---	---	---	---	<0.33	<0.33	
Pyrene	2,300	61,000	61,000	2,300	---	<0.33	<0.33	
Total Metals, mg/kg								
Antimony	5	82	---	31	---	<1.0	<1.0	
Arsenic	11.3 / 13	61	25,000	---	750	2.8	4.6	
Barium	1,500	14,000	870,000	5,500	690,000	14.1	19.9	
Beryllium	22	410	44,000	160	1,300	<0.5	0.5	
Cadmium	5.2	200	59,000	78	1,800	<0.5	<0.5	
Calcium	---	---	---	---	---	83100	95500	
Chromium	21	4100	690	230	270	10.1	14	
Cobalt	20	12000	---	4,700	---	5.2	8.9	
Copper	2,900	8,200	---	2,900	---	14.5	20.1	
Iron	15,000 / 15,900	---	---	---	---	10900	15600	
Lead	107	700	---	400	---	6.9	9.9	
Magnesium	325,000	730,000	---	325,000	---	43200	52000	
Manganese	630 / 636	4100	8,700	1,600	---	326	397	
Mercury	0.89	61	0.1	23	10	<0.05	<0.05	
Nickel	100	4100	440,000	1,600	13,000	12.8	21.7	
Potassium	---	---	---	---	---	1110	2130	
Selenium	1.3	1000	---	390	---	<1.0	<1.0	
Silver	4.4	1000	---	390	---	<0.2	<0.2	
Sodium	---	---	---	---	---	134	244	
Thallium	2.6	160	---	6.3	---	<1.0	<1.0	
Vanadium	550	1400	---	550	---	14.3	17.7	
Zinc	5,100	61,000	---	23,000	---	26	36.3	
TCLP Metals, mg/L	Class I Groundwater ^{d/}							
Arsenic			0.05			<0.010	<0.010	
Barium			2			<1.0	<1.0	
Beryllium			0.004			<0.004	<0.004	
Cadmium			0.005			<0.005	<0.005	
Chromium			0.1			<0.005	<0.005	
Cobalt			1			<0.1	<0.1	
Copper			0.65			<0.1	<0.1	
Iron			5			<0.1	<0.1	
Lead			0.0075			<0.005	<0.005	
Manganese			0.15			1.6	1.7	
Mercury			0.002			<0.0005	<0.0005	
Nickel			0.1			<0.1	<0.1	
Selenium			0.05			<0.010	<0.010	
Silver			0.05			<0.005	<0.005	
Zinc			5			<0.1	<0.1	
SPLP Metals, mg/L	Class I Groundwater ^{d/}							
Arsenic			0.05			<0.010	<0.010	
Barium			2			<1.0	<1.0	
Beryllium			0.004			<0.004	<0.004	
Cadmium			0.005			<0.005	<0.005	
Chromium			0.1			<0.005	<0.005	
Cobalt			1			<0.1	<0.1	
Copper			0.65			<0.005	<0.005	
Iron			5			1	0.4	
Lead			0.0075			<0.005	<0.005	
Manganese			0.15			<0.1	<0.1	
Mercury			0.002			<0.0005	<0.0005	
Nickel			0.1			<0.1	<0.1	
Selenium			0.05			<0.010	<0.010	
Silver			0.05			<0.005	<0.005	
Zinc			5			<0.1	<0.1	

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

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

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

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


^{b/} Soil Remediation Objectives for Construction Workers, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table B

^{c/} Soil Remediation Objectives for Residential exposure, Illinois EPA Tier 1 Soil Remedial Objectives; 35 IAC 742, Appendix B, Table A

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

When comparing results to the Soil Remediation Objectives, IDOT compares to the most stringent of the ingestion or inhalation exposure route value.

Bold indicates concentration detected

 Shaded values indicate concentration exceeds reference concentration



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-03 (0-5)
Sample No: 22-2117-015

Date Collected: 04/01/22
Time Collected: 10:25
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/04/22				
Total Solids	89.55		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/06/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-03 (0-5)
Sample No: 22-2117-015

Date Collected: 04/01/22
Time Collected: 10:25
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/06/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/06/22				
Preparation Date: 04/05/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-03 (0-5)
Sample No: 22-2117-015

Date Collected: 04/01/22
Time Collected: 10:25
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/06/22		Preparation Date: 04/05/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-03 (0-5)
Sample No: 22-2117-015

Date Collected: 04/01/22
Time Collected: 10:25
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/06/22		Preparation Date: 04/05/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/06/22		Preparation Date: 04/05/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	2.4	1.0	mg/kg	
Barium	40.3	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	78,100	50	mg/kg	
Chromium	12.0	0.5	mg/kg	
Cobalt	5.1	0.5	mg/kg	
Copper	11.4	0.5	mg/kg	
Iron	11,900	5.0	mg/kg	
Lead	5.3	0.5	mg/kg	
Magnesium	36,300	50	mg/kg	
Manganese	285	0.5	mg/kg	
Nickel	12.8	0.5	mg/kg	
Potassium	1,290	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	655	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	16.4	1.0	mg/kg	
Zinc	27.6	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-03 (0-5)
Sample No: 22-2117-015

Date Collected: 04/01/22
Time Collected: 10:25
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/05/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/14/22 9:30				
pH @ 25°C, 1:2	8.71		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/04/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/06/22				
Preparation Method 3010A				
Preparation Date: 04/05/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.5	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: 04/06/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/04/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 13-03 (0-5)
Sample No: 22-2117-015

Date Collected: 04/01/22
Time Collected: 10:25
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/07/22		Preparation Date: 04/05/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.032	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.024	0.005	mg/L	
Iron	28.7	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	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/05/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	89.5	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	101.2	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	114.3	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	67	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	62	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	54.5	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	80	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	61	35 -	105
8270C	Phenol-d5 (surr)	%R:	64.5	50 -	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-13-09 (0-5)
Sample No: 22-2256-001

Date Collected: 04/06/22
Time Collected: 10:35
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/07/22				
Total Solids	84.95		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/10/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-13-09 (0-5)
Sample No: 22-2256-001

Date Collected: 04/06/22
Time Collected: 10:35
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/10/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/13/22				
Preparation Date: 04/12/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-13-09 (0-5)
Sample No: 22-2256-001

Date Collected: 04/06/22
Time Collected: 10:35
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/13/22		Preparation Date: 04/12/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-13-09 (0-5)
Sample No: 22-2256-001

Date Collected: 04/06/22
Time Collected: 10:35
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/13/22		Preparation Date: 04/12/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals	Method: 6010C	Preparation Method 3050B		
Analysis Date: 04/11/22		Preparation Date: 04/08/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.4	1.0	mg/kg	
Barium	59.6	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	1.5	0.5	mg/kg	
Calcium	70,500	50	mg/kg	
Chromium	16.6	0.5	mg/kg	
Cobalt	7.1	0.5	mg/kg	
Copper	20.0	0.5	mg/kg	
Iron	15,300	5.0	mg/kg	
Lead	49.4	0.5	mg/kg	
Magnesium	39,600	50	mg/kg	
Manganese	386	0.5	mg/kg	
Nickel	18.1	0.5	mg/kg	
Potassium	1,980	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	865	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	25.6	1.0	mg/kg	
Zinc	46.8	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-13-09 (0-5)
Sample No: 22-2256-001

Date Collected: 04/06/22
Time Collected: 10:35
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/08/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/18/22 14:10				
pH @ 25°C, 1:2	7.45		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/07/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/12/22				
Preparation Method 3010A				
Preparation Date: 04/11/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.4	0.1	mg/L	
Lead	0.014	0.005	mg/L	
Manganese	7.7	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: 04/08/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/07/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-13-09 (0-5)
Sample No: 22-2256-001

Date Collected: 04/06/22
Time Collected: 10:35
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/12/22		Preparation Date: 04/11/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.008	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.012	0.005	mg/L	
Iron	6.0	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	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/11/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	101.9	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.2	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	91.4	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	78.5	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	75	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	60	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	93	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	68	35 -	105
8270C	Phenol-d5 (surr)	%R:	72.5	50 -	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-13-09 (5-10)
Sample No: 22-2256-002

Date Collected: 04/06/22
Time Collected: 10:36
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/07/22				
Total Solids	87.98		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/10/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-13-09 (5-10)
Sample No: 22-2256-002

Date Collected: 04/06/22
Time Collected: 10:36
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/10/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/13/22				
Preparation Date: 04/12/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-13-09 (5-10)
Sample No: 22-2256-002

Date Collected: 04/06/22
Time Collected: 10:36
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/13/22		Preparation Date: 04/12/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-13-09 (5-10)
Sample No: 22-2256-002

Date Collected: 04/06/22
Time Collected: 10:36
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/13/22		Preparation Date: 04/12/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/11/22		Preparation Date: 04/08/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.0	1.0	mg/kg	
Barium	51.6	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	1.7	0.5	mg/kg	
Calcium	79,800	50	mg/kg	
Chromium	16.4	0.5	mg/kg	
Cobalt	10.6	0.5	mg/kg	
Copper	21.5	0.5	mg/kg	
Iron	17,700	5.0	mg/kg	
Lead	10.3	0.5	mg/kg	
Magnesium	42,800	50	mg/kg	
Manganese	842	0.5	mg/kg	
Nickel	28.5	0.5	mg/kg	
Potassium	2,280	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	454	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	21.7	1.0	mg/kg	
Zinc	41.5	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-13-09 (5-10)
Sample No: 22-2256-002

Date Collected: 04/06/22
Time Collected: 10:36
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/12/22		Preparation Date: 04/11/22		
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	0.005	0.005	mg/L	
Iron	3.2	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/12/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	100.4	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	97	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	92.8	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	72	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	59	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	58.5	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	88	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	62	35 -	105
8270C	Phenol-d5 (surr)	%R:	66.5	50 -	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 03/29/22

Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08

Time Collected: 10:14

Sample ID: 13-18 (0-5)

Date Received: 03/30/22

Sample No: 22-2001-009

Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 03/30/22				
Total Solids	75.92		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/31/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 13-18 (0-5)
Sample No: 22-2001-009

Date Collected: 03/29/22
Time Collected: 10:14
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/31/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/31/22				
Preparation Date: 03/30/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 13-18 (0-5)
Sample No: 22-2001-009

Date Collected: 03/29/22
Time Collected: 10:14
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/31/22		Preparation Date: 03/30/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 13-18 (0-5)
Sample No: 22-2001-009

Date Collected: 03/29/22
Time Collected: 10:14
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/31/22		Preparation Date: 03/30/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 03/31/22		Preparation Date: 03/31/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.5	1.0	mg/kg	
Barium	87.3	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	1.0	0.5	mg/kg	
Calcium	43,700	50	mg/kg	
Chromium	18.0	0.5	mg/kg	
Cobalt	9.1	0.5	mg/kg	
Copper	21.5	0.5	mg/kg	
Iron	19,500	5.0	mg/kg	
Lead	50.9	0.5	mg/kg	
Magnesium	23,500	50	mg/kg	
Manganese	588	0.5	mg/kg	
Nickel	19.8	0.5	mg/kg	
Potassium	1,540	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	1,690	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	32.5	1.0	mg/kg	
Zinc	51.6	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 13-18 (0-5)
Sample No: 22-2001-009

Date Collected: 03/29/22
Time Collected: 10:14
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 03/31/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/05/22 14:05				
pH @ 25°C, 1:2	8.08		Units	
TCLP Extraction Method: 1311				
Analysis Date: 03/30/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/01/22				
Preparation Method 3010A				
Preparation Date: 03/31/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	1.2	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	7.9	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: 03/31/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 03/30/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 13-18 (0-5)
Sample No: 22-2001-009

Date Collected: 03/29/22
Time Collected: 10:14
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/04/22		Preparation Date: 04/01/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.014	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.017	0.005	mg/L	
Iron	10.8	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/01/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	94.7	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	94	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	98.8	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	127.2	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	74	45	112
8270C	2-Fluorophenol (Surr)	%R:	66.8	41	84
8270C	d14-Terphenyl (Surr)	%R:	109.6	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	65.5	35	105
8270C	Phenol-d5 (surr)	%R:	82.2	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 03/29/22

Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08

Time Collected: 10:16

Sample ID: 13-18 (5-10)

Date Received: 03/30/22

Sample No: 22-2001-010

Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 03/30/22				
Total Solids	85.44		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/31/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 13-18 (5-10)
Sample No: 22-2001-010

Date Collected: 03/29/22
Time Collected: 10:16
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/31/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/31/22				
Preparation Date: 03/30/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 13-18 (5-10)
Sample No: 22-2001-010

Date Collected: 03/29/22
Time Collected: 10:16
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 03/31/22		Preparation Date: 03/30/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 13-18 (5-10)
Sample No: 22-2001-010

Date Collected: 03/29/22
Time Collected: 10:16
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 03/31/22		Preparation Date: 03/30/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 03/31/22		Preparation Date: 03/31/22		
Antimony	1.0	1.0	mg/kg	
Arsenic	3.1	1.0	mg/kg	
Barium	25.4	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	1.1	0.5	mg/kg	
Calcium	79,800	50	mg/kg	
Chromium	15.5	0.5	mg/kg	
Cobalt	5.1	0.5	mg/kg	
Copper	20.6	0.5	mg/kg	
Iron	18,400	5.0	mg/kg	
Lead	26.8	0.5	mg/kg	
Magnesium	41,700	50	mg/kg	
Manganese	288	0.5	mg/kg	
Nickel	19.0	0.5	mg/kg	
Potassium	1,730	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	362	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	23.0	1.0	mg/kg	
Zinc	82.0	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 13-18 (5-10)
Sample No: 22-2001-010

Date Collected: 03/29/22
Time Collected: 10:16
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/04/22		Preparation Date: 04/01/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.010	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.007	0.005	mg/L	
Iron	6.4	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/01/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary: Surrogate Recovery				%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	89.3	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	94.7	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	101.8	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	115.6	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	67.9	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	61.7	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	93.5	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	76	35 -	105
8270C	Phenol-d5 (surr)	%R:	76.4	50 -	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/01/22

Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5

Time Collected: 11:03

Sample ID: 16-02 (0-5.5)

Date Received: 04/04/22

Sample No: 22-2117-023

Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/04/22				
Total Solids	86.78		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/06/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 16-02 (0-5.5)
Sample No: 22-2117-023

Date Collected: 04/01/22
Time Collected: 11:03
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/06/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/07/22				
Preparation Date: 04/06/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 16-02 (0-5.5)
Sample No: 22-2117-023

Date Collected: 04/01/22
Time Collected: 11:03
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/07/22		Preparation Date: 04/06/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 16-02 (0-5.5)
Sample No: 22-2117-023

Date Collected: 04/01/22
Time Collected: 11:03
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/07/22		Preparation Date: 04/06/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/06/22		Preparation Date: 04/05/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	1.8	1.0	mg/kg	
Barium	47.1	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	15,500	50	mg/kg	
Chromium	8.2	0.5	mg/kg	
Cobalt	5.7	0.5	mg/kg	
Copper	9.4	0.5	mg/kg	
Iron	8,450	5.0	mg/kg	
Lead	15.8	0.5	mg/kg	
Magnesium	8,950	50	mg/kg	
Manganese	227	0.5	mg/kg	
Nickel	9.0	0.5	mg/kg	
Potassium	685	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	1,180	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	15.5	1.0	mg/kg	
Zinc	28.1	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 16-02 (0-5.5)
Sample No: 22-2117-023

Date Collected: 04/01/22
Time Collected: 11:03
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/06/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/15/22 8:45				
pH @ 25°C, 1:2	7.84		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/04/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/07/22				
Preparation Method 3010A Preparation Date: 04/06/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.2	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: 04/07/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/04/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 16-02 (0-5.5)
Sample No: 22-2117-023

Date Collected: 04/01/22
Time Collected: 11:03
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/08/22		Preparation Date: 04/06/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.011	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.011	0.005	mg/L	
Iron	7.0	0.1	mg/L	
Lead	0.013	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/07/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	87.6	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	100.4	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	113.3	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	132.5	*	59 - 131
8270C	2-Fluorobiphenyl (Surr)	%R:	89		45 - 112
8270C	2-Fluorophenol (Surr)	%R:	71		41 - 84
8270C	d14-Terphenyl (Surr)	%R:	124	*	56 - 120
8270C	d5-Nitrobenzene (Surr)	%R:	98		35 - 105
8270C	Phenol-d5 (surr)	%R:	92		50 - 100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 03/29/22

Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08

Time Collected: 12:31

Sample ID: 18-03 (0-1)

Date Received: 03/30/22

Sample No: 22-2001-035

Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 03/31/22				
Total Solids	91.54		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/31/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 18-03 (0-1)
Sample No: 22-2001-035

Date Collected: 03/29/22
Time Collected: 12:31
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/31/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/07/22				
Preparation Date: 03/31/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 18-03 (0-1)
Sample No: 22-2001-035

Date Collected: 03/29/22
Time Collected: 12:31
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/07/22		Preparation Date: 03/31/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	1,610	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 18-03 (0-1)
Sample No: 22-2001-035

Date Collected: 03/29/22
Time Collected: 12:31
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/07/22		Preparation Date: 03/31/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	957	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	1,370	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals	Method: 6010C	Preparation Method 3050B		
Analysis Date: 04/04/22		Preparation Date: 03/31/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	1.7	1.0	mg/kg	
Barium	50.0	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	131,000	50	mg/kg	
Chromium	21.9	0.5	mg/kg	
Cobalt	2.8	0.5	mg/kg	
Copper	23.3	0.5	mg/kg	
Iron	10,300	5.0	mg/kg	
Lead	56.9	0.5	mg/kg	
Magnesium	64,900	50	mg/kg	
Manganese	483	0.5	mg/kg	
Nickel	9.1	0.5	mg/kg	
Potassium	452	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	495	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	17.8	1.0	mg/kg	
Zinc	63.0	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 18-03 (0-1)
Sample No: 22-2001-035

Date Collected: 03/29/22
Time Collected: 12:31
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 03/31/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/07/22 10:40				
pH @ 25°C, 1:2	8.97		Units	
TCLP Extraction Method: 1311				
Analysis Date: 03/31/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/04/22				
Preparation Method 3010A				
Preparation Date: 04/01/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.0	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.2	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 04/04/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 03/31/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 18-03 (0-1)
Sample No: 22-2001-035

Date Collected: 03/29/22
Time Collected: 12:31
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/05/22		Preparation Date: 04/01/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.010	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.014	0.005	mg/L	
Iron	4.0	0.1	mg/L	
Lead	0.022	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/04/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary: Surrogate Recovery				%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	88.7	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	93.7	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	99.4	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	88	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	76	45	112
8270C	2-Fluorophenol (Surr)	%R:	58	41	84
8270C	d14-Terphenyl (Surr)	%R:	80	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	84	35	105
8270C	Phenol-d5 (surr)	%R:	72	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 18-04 (0-1)
Sample No: 22-2001-034

Date Collected: 03/29/22
Time Collected: 12:29
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 03/31/22				
Total Solids	88.75		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/31/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 18-04 (0-1)
Sample No: 22-2001-034

Date Collected: 03/29/22
Time Collected: 12:29
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 03/31/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/04/22				
Preparation Date: 03/31/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 18-04 (0-1)
Sample No: 22-2001-034

Date Collected: 03/29/22
Time Collected: 12:29
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/04/22		Preparation Date: 03/31/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 18-04 (0-1)
Sample No: 22-2001-034

Date Collected: 03/29/22
Time Collected: 12:29
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/04/22		Preparation Date: 03/31/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/04/22		Preparation Date: 03/31/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.1	1.0	mg/kg	
Barium	36.3	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	89,400	50	mg/kg	
Chromium	12.9	0.5	mg/kg	
Cobalt	7.0	0.5	mg/kg	
Copper	16.6	0.5	mg/kg	
Iron	15,900	5.0	mg/kg	
Lead	7.6	0.5	mg/kg	
Magnesium	42,000	50	mg/kg	
Manganese	368	0.5	mg/kg	
Nickel	19.1	0.5	mg/kg	
Potassium	1,160	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	697	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	19.2	1.0	mg/kg	
Zinc	30.2	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 18-04 (0-1)
Sample No: 22-2001-034

Date Collected: 03/29/22
Time Collected: 12:29
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 03/31/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/07/22 10:40				
pH @ 25°C, 1:2	8.92		Units	
TCLP Extraction Method: 1311				
Analysis Date: 03/31/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 04/04/22 Preparation Date: 04/01/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.3	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	2.7	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: 04/04/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 03/31/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 18-04 (0-1)
Sample No: 22-2001-034

Date Collected: 03/29/22
Time Collected: 12:29
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/05/22		Preparation Date: 04/01/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.010	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.010	0.005	mg/L	
Iron	8.4	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/04/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	90.2	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	93.9	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	101.2	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	113	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	70	45	112
8270C	2-Fluorophenol (Surr)	%R:	59	41	84
8270C	d14-Terphenyl (Surr)	%R:	89	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	72	35	105
8270C	Phenol-d5 (surr)	%R:	76.5	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 03/29/22

Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08

Time Collected: 13:23

Sample ID: 30-05 (0-5)

Date Received: 03/30/22

Sample No: 22-2001-046

Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 03/31/22				
Total Solids	74.35		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/01/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 03/29/22

Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08

Time Collected: 13:23

Sample ID: 30-05 (0-5)

Date Received: 03/30/22

Sample No: 22-2001-046

Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/01/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/05/22				
Preparation Date: 04/04/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 30-05 (0-5)
Sample No: 22-2001-046

Date Collected: 03/29/22
Time Collected: 13:23
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/05/22		Preparation Date: 04/04/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 30-05 (0-5)
Sample No: 22-2001-046

Date Collected: 03/29/22
Time Collected: 13:23
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/05/22		Preparation Date: 04/04/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/04/22		Preparation Date: 04/01/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.2	1.0	mg/kg	
Barium	121	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	45,200	50	mg/kg	
Chromium	20.3	0.5	mg/kg	
Cobalt	9.1	0.5	mg/kg	
Copper	23.5	0.5	mg/kg	
Iron	23,300	5.0	mg/kg	
Lead	13.5	0.5	mg/kg	
Magnesium	20,700	50	mg/kg	
Manganese	579	0.5	mg/kg	
Nickel	21.7	0.5	mg/kg	
Potassium	1,280	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	1,490	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	35.4	1.0	mg/kg	
Zinc	51.8	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 30-05 (0-5)
Sample No: 22-2001-046

Date Collected: 03/29/22
Time Collected: 13:23
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/01/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/13/22 8:50				
pH @ 25°C, 1:2	7.89		Units	
TCLP Extraction Method: 1311				
Analysis Date: 03/31/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/04/22				
Preparation Method 3010A				
Preparation Date: 04/01/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	5.8	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: 04/04/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 03/31/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 30-05 (0-5)
Sample No: 22-2001-046

Date Collected: 03/29/22
Time Collected: 13:23
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/05/22		Preparation Date: 04/04/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.016	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.010	0.005	mg/L	
Iron	13.4	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/04/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	89.3	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	93.8	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	102.4	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	126.8	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	74.4	45	112
8270C	2-Fluorophenol (Surr)	%R:	70.8	41	84
8270C	d14-Terphenyl (Surr)	%R:	99.4	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	75.9	35	105
8270C	Phenol-d5 (surr)	%R:	89.9	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 03/29/22

Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08

Time Collected: 13:24

Sample ID: 30-05 (5-10)

Date Received: 03/30/22

Sample No: 22-2001-047

Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 03/31/22				
Total Solids	83.46		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/01/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 30-05 (5-10)
Sample No: 22-2001-047

Date Collected: 03/29/22
Time Collected: 13:24
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/01/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/05/22				
Preparation Date: 04/04/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 30-05 (5-10)
Sample No: 22-2001-047

Date Collected: 03/29/22
Time Collected: 13:24
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/05/22		Preparation Date: 04/04/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 03/29/22

Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08

Time Collected: 13:24

Sample ID: 30-05 (5-10)

Date Received: 03/30/22

Sample No: 22-2001-047

Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/05/22		Preparation Date: 04/04/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals	Method: 6010C	Preparation Method 3050B		
Analysis Date: 04/04/22		Preparation Date: 04/01/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.4	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	83,400	50	mg/kg	
Chromium	17.2	0.5	mg/kg	
Cobalt	9.8	0.5	mg/kg	
Copper	18.1	0.5	mg/kg	
Iron	18,300	5.0	mg/kg	
Lead	9.1	0.5	mg/kg	
Magnesium	44,600	50	mg/kg	
Manganese	437	0.5	mg/kg	
Nickel	23.5	0.5	mg/kg	
Potassium	1,780	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	395	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	23.6	1.0	mg/kg	
Zinc	42.5	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 30-05 (5-10)
Sample No: 22-2001-047

Date Collected: 03/29/22
Time Collected: 13:24
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/01/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/13/22 8:50				
pH @ 25°C, 1:2	8.52		Units	
TCLP Extraction Method: 1311				
Analysis Date: 03/31/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/04/22				
Preparation Method 3010A				
Preparation Date: 04/01/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.008	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	1.5	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: 04/04/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 03/31/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 81.0220714.08
Sample ID: 30-05 (5-10)
Sample No: 22-2001-047

Date Collected: 03/29/22
Time Collected: 13:24
Date Received: 03/30/22
Date Reported: 04/14/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/05/22		Preparation Date: 04/04/22		
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	0.021	0.005	mg/L	
Iron	25.0	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	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/04/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	88.4	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	93.8	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	99	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	85.5	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	53.4	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	49.2	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	69.3	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	62.3	35 -	105
8270C	Phenol-d5 (surr)	%R:	64.2	50 -	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 30-11 (0-5)
Sample No: 22-2117-003

Date Collected: 04/01/22
Time Collected: 9:15
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/04/22				
Total Solids	92.20		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/09/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/01/22

Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5

Time Collected: 9:15

Sample ID: 30-11 (0-5)

Date Received: 04/04/22

Sample No: 22-2117-003

Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/09/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/06/22				
Preparation Date: 04/05/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 30-11 (0-5)
Sample No: 22-2117-003

Date Collected: 04/01/22
Time Collected: 9:15
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/06/22		Preparation Date: 04/05/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 30-11 (0-5)
Sample No: 22-2117-003

Date Collected: 04/01/22
Time Collected: 9:15
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/06/22		Preparation Date: 04/05/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/06/22		Preparation Date: 04/05/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	1.5	1.0	mg/kg	
Barium	22.9	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	65,500	50	mg/kg	
Chromium	8.9	0.5	mg/kg	
Cobalt	2.9	0.5	mg/kg	
Copper	9.9	0.5	mg/kg	
Iron	9,890	5.0	mg/kg	
Lead	6.4	0.5	mg/kg	
Magnesium	37,000	50	mg/kg	
Manganese	176	0.5	mg/kg	
Nickel	7.5	0.5	mg/kg	
Potassium	569	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	732	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	23.9	1.0	mg/kg	
Zinc	19.7	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 30-11 (0-5)
Sample No: 22-2117-003

Date Collected: 04/01/22
Time Collected: 9:15
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/07/22		Preparation Date: 04/05/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.017	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.014	0.005	mg/L	
Iron	13.8	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/05/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	103.1	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	101.2	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	92.2	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	106.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	68	45	112
8270C	2-Fluorophenol (Surr)	%R:	58.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	94	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	73	35	105
8270C	Phenol-d5 (surr)	%R:	70.5	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 30-11 (5-10)
Sample No: 22-2117-004

Date Collected: 04/01/22
Time Collected: 9:16
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/04/22				
Total Solids	87.63		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/09/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 30-11 (5-10)
Sample No: 22-2117-004

Date Collected: 04/01/22
Time Collected: 9:16
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/09/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/07/22				
Preparation Date: 04/05/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 30-11 (5-10)
Sample No: 22-2117-004

Date Collected: 04/01/22
Time Collected: 9:16
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/07/22		Preparation Date: 04/05/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 30-11 (5-10)
Sample No: 22-2117-004

Date Collected: 04/01/22
Time Collected: 9:16
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/07/22		Preparation Date: 04/05/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/06/22		Preparation Date: 04/05/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.4	1.0	mg/kg	
Barium	30.2	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	0.8	0.5	mg/kg	
Calcium	85,800	50	mg/kg	
Chromium	16.9	0.5	mg/kg	
Cobalt	9.0	0.5	mg/kg	
Copper	19.8	0.5	mg/kg	
Iron	18,900	5.0	mg/kg	
Lead	10.0	0.5	mg/kg	
Magnesium	44,800	50	mg/kg	
Manganese	335	0.5	mg/kg	
Nickel	25.2	0.5	mg/kg	
Potassium	2,440	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	263	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	21.8	1.0	mg/kg	
Zinc	46.7	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 30-11 (5-10)
Sample No: 22-2117-004

Date Collected: 04/01/22
Time Collected: 9:16
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/07/22		Preparation Date: 04/05/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	3.7	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/05/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	94.3	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.3	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	93.7	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	107	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	64	45	112
8270C	2-Fluorophenol (Surr)	%R:	53	41	84
8270C	d14-Terphenyl (Surr)	%R:	76	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	68	35	105
8270C	Phenol-d5 (surr)	%R:	71	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/11/22

Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05

Time Collected: 9:00

Sample ID: 3919-COV-30-13 (0-5)

Date Received: 04/12/22

Sample No: 22-2423-001

Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	87.25		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/19/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-30-13 (0-5)
Sample No: 22-2423-001

Date Collected: 04/11/22
Time Collected: 9:00
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/19/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/22/22				
Preparation Date: 04/20/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-30-13 (0-5)
Sample No: 22-2423-001

Date Collected: 04/11/22
Time Collected: 9:00
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-30-13 (0-5)
Sample No: 22-2423-001

Date Collected: 04/11/22
Time Collected: 9:00
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/26/22		Preparation Date: 04/22/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.6	1.0	mg/kg	
Barium	33.3	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	79,100	50	mg/kg	
Chromium	15.0	0.5	mg/kg	
Cobalt	9.1	0.5	mg/kg	
Copper	21.0	0.5	mg/kg	
Iron	18,700	5.0	mg/kg	
Lead	10.6	0.5	mg/kg	
Magnesium	41,700	50	mg/kg	
Manganese	494	0.5	mg/kg	
Nickel	25.4	0.5	mg/kg	
Potassium	1,760	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	311	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	20.7	1.0	mg/kg	
Zinc	40.7	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-30-13 (0-5)
Sample No: 22-2423-001

Date Collected: 04/11/22
Time Collected: 9:00
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/06/22		Preparation Date: 05/05/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	2.3	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/05/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	97.6	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.8	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	102.8	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	123.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	70	45	112
8270C	2-Fluorophenol (Surr)	%R:	65.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	94	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	87	35	105
8270C	Phenol-d5 (surr)	%R:	82	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/11/22

Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05

Time Collected: 9:01

Sample ID: 3919-COV-30-13 (5-10)

Date Received: 04/12/22

Sample No: 22-2423-002

Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	86.33		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/19/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/11/22

Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05

Time Collected: 9:01

Sample ID: 3919-COV-30-13 (5-10)

Date Received: 04/12/22

Sample No: 22-2423-002

Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/19/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/25/22				
Preparation Date: 04/22/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-30-13 (5-10)
Sample No: 22-2423-002

Date Collected: 04/11/22
Time Collected: 9:01
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/25/22		Preparation Date: 04/22/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-30-13 (5-10)
Sample No: 22-2423-002

Date Collected: 04/11/22
Time Collected: 9:01
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/25/22		Preparation Date: 04/22/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/26/22		Preparation Date: 04/22/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	10.7	1.0	mg/kg	
Barium	30.2	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	82,600	50	mg/kg	
Chromium	16.6	0.5	mg/kg	
Cobalt	9.9	0.5	mg/kg	
Copper	20.6	0.5	mg/kg	
Iron	22,500	5.0	mg/kg	
Lead	11.4	0.5	mg/kg	
Magnesium	43,100	50	mg/kg	
Manganese	354	0.5	mg/kg	
Nickel	26.6	0.5	mg/kg	
Potassium	2,220	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	331	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	22.1	1.0	mg/kg	
Zinc	43.7	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-30-13 (5-10)
Sample No: 22-2423-002

Date Collected: 04/11/22
Time Collected: 9:01
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/06/22		Preparation Date: 05/05/22		
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	0.006	0.005	mg/L	
Iron	5.0	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	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/05/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	90.9	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.6	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	103.4	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	79	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	69	45	112
8270C	2-Fluorophenol (Surr)	%R:	63.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	92	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	72	35	105
8270C	Phenol-d5 (surr)	%R:	73	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/11/22

Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05

Time Collected: 9:20

Sample ID: 3919-COV-32-01 (0-5)

Date Received: 04/12/22

Sample No: 22-2423-005

Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	73.48		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/19/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-32-01 (0-5)
Sample No: 22-2423-005

Date Collected: 04/11/22
Time Collected: 9:20
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/19/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/25/22				
Preparation Date: 04/22/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-32-01 (0-5)
Sample No: 22-2423-005

Date Collected: 04/11/22
Time Collected: 9:20
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/25/22		Preparation Date: 04/22/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-32-01 (0-5)
Sample No: 22-2423-005

Date Collected: 04/11/22
Time Collected: 9:20
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/25/22		Preparation Date: 04/22/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/29/22		Preparation Date: 04/22/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.9	1.0	mg/kg	
Barium	92.9	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	26,800	50	mg/kg	
Chromium	16.3	0.5	mg/kg	
Cobalt	10.5	0.5	mg/kg	
Copper	41.3	0.5	mg/kg	
Iron	22,200	5.0	mg/kg	
Lead	16.7	0.5	mg/kg	
Magnesium	16,900	50	mg/kg	
Manganese	575	0.5	mg/kg	
Nickel	17.6	0.5	mg/kg	
Potassium	1,400	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	976	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	40.8	1.0	mg/kg	
Zinc	51.0	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-32-01 (0-5)
Sample No: 22-2423-005

Date Collected: 04/11/22
Time Collected: 9:20
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/06/22		Preparation Date: 05/05/22		
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	0.006	0.005	mg/L	
Iron	6.4	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/05/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary: Surrogate Recovery				%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	97.3	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.3	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	101.1	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	84.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	77	45	112
8270C	2-Fluorophenol (Surr)	%R:	57.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	98	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	71	35	105
8270C	Phenol-d5 (surr)	%R:	73	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/11/22

Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05

Time Collected: 9:21

Sample ID: 3919-COV-32-01 (5-10)

Date Received: 04/12/22

Sample No: 22-2423-006

Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	86.99		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/19/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/11/22

Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05

Time Collected: 9:21

Sample ID: 3919-COV-32-01 (5-10)

Date Received: 04/12/22

Sample No: 22-2423-006

Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/19/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/25/22				
Preparation Date: 04/22/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-32-01 (5-10)
Sample No: 22-2423-006

Date Collected: 04/11/22
Time Collected: 9:21
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/25/22		Preparation Date: 04/22/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-32-01 (5-10)
Sample No: 22-2423-006

Date Collected: 04/11/22
Time Collected: 9:21
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/25/22		Preparation Date: 04/22/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals	Method: 6010C	Preparation Method 3050B		
Analysis Date: 04/29/22		Preparation Date: 04/22/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	2.3	1.0	mg/kg	
Barium	28.7	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	79,900	50	mg/kg	
Chromium	16.2	0.5	mg/kg	
Cobalt	4.5	0.5	mg/kg	
Copper	13.5	0.5	mg/kg	
Iron	14,600	5.0	mg/kg	
Lead	5.5	0.5	mg/kg	
Magnesium	43,500	50	mg/kg	
Manganese	272	0.5	mg/kg	
Nickel	18.1	0.5	mg/kg	
Potassium	2,220	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	302	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	18.3	1.0	mg/kg	
Zinc	35.6	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-32-01 (5-10)
Sample No: 22-2423-006

Date Collected: 04/11/22
Time Collected: 9:21
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/06/22		Preparation Date: 05/05/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.016	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.014	0.005	mg/L	
Iron	13.4	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/05/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	95.5	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	99	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	103.2	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	82	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	69	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	67	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	93	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	73	35 -	105
8270C	Phenol-d5 (surr)	%R:	76	50 -	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/11/22

Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05

Time Collected: 9:15

Sample ID: 3919-COV-32-02 (0-5)

Date Received: 04/12/22

Sample No: 22-2423-003

Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	86.89		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/19/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-32-02 (0-5)
Sample No: 22-2423-003

Date Collected: 04/11/22
Time Collected: 9:15
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/19/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/25/22				
Preparation Date: 04/22/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-32-02 (0-5)
Sample No: 22-2423-003

Date Collected: 04/11/22
Time Collected: 9:15
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/25/22		Preparation Date: 04/22/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/11/22

Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05

Time Collected: 9:15

Sample ID: 3919-COV-32-02 (0-5)

Date Received: 04/12/22

Sample No: 22-2423-003

Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/25/22		Preparation Date: 04/22/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals	Method: 6010C	Preparation Method 3050B		
Analysis Date: 04/26/22		Preparation Date: 04/22/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.3	1.0	mg/kg	
Barium	33.8	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	112,000	50	mg/kg	
Chromium	14.2	0.5	mg/kg	
Cobalt	5.9	0.5	mg/kg	
Copper	20.2	0.5	mg/kg	
Iron	16,900	5.0	mg/kg	
Lead	8.7	0.5	mg/kg	
Magnesium	39,900	50	mg/kg	
Manganese	286	0.5	mg/kg	
Nickel	17.8	0.5	mg/kg	
Potassium	1,600	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	642	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	19.6	1.0	mg/kg	
Zinc	34.1	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-32-02 (0-5)
Sample No: 22-2423-003

Date Collected: 04/11/22
Time Collected: 9:15
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/06/22		Preparation Date: 05/05/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.024	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.019	0.005	mg/L	
Iron	21.2	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	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/05/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	101.8	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.5	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	108	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	85.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	73	45	112
8270C	2-Fluorophenol (Surr)	%R:	63	41	84
8270C	d14-Terphenyl (Surr)	%R:	98	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	72	35	105
8270C	Phenol-d5 (surr)	%R:	72	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/11/22

Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05

Time Collected: 9:16

Sample ID: 3919-COV-32-02 (5-10)

Date Received: 04/12/22

Sample No: 22-2423-004

Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	87.43		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/19/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/11/22

Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05

Time Collected: 9:16

Sample ID: 3919-COV-32-02 (5-10)

Date Received: 04/12/22

Sample No: 22-2423-004

Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/19/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/25/22				
Preparation Date: 04/22/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-32-02 (5-10)
Sample No: 22-2423-004

Date Collected: 04/11/22
Time Collected: 9:16
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/25/22		Preparation Date: 04/22/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-32-02 (5-10)
Sample No: 22-2423-004

Date Collected: 04/11/22
Time Collected: 9:16
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/25/22		Preparation Date: 04/22/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/29/22		Preparation Date: 04/22/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.4	1.0	mg/kg	
Barium	31.2	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	79,400	50	mg/kg	
Chromium	13.6	0.5	mg/kg	
Cobalt	12.4	0.5	mg/kg	
Copper	20.6	0.5	mg/kg	
Iron	20,400	5.0	mg/kg	
Lead	12.9	0.5	mg/kg	
Magnesium	42,600	50	mg/kg	
Manganese	619	0.5	mg/kg	
Nickel	28.9	0.5	mg/kg	
Potassium	1,670	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	567	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	23.5	1.0	mg/kg	
Zinc	48.2	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-32-02 (5-10)
Sample No: 22-2423-004

Date Collected: 04/11/22
Time Collected: 9:16
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/27/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/28/22 12:45				
pH @ 25°C, 1:2	8.96		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/20/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 04/29/22 Preparation Date: 04/25/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	1.3	0.1	mg/L	
Lead	< 0.005	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: 05/03/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/20/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-32-02 (5-10)
Sample No: 22-2423-004

Date Collected: 04/11/22
Time Collected: 9:16
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/06/22		Preparation Date: 05/05/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.022	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.018	0.005	mg/L	
Iron	18.0	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/05/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary: Surrogate Recovery				%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	92.8	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.2	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	105.6	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	79	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	68	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	55.5	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	93	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	64	35 -	105
8270C	Phenol-d5 (surr)	%R:	66	50 -	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-33-01 (0-5)
Sample No: 22-2256-023

Date Collected: 04/06/22
Time Collected: 11:15
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/07/22				
Total Solids	84.73		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/10/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-33-01 (0-5)
Sample No: 22-2256-023

Date Collected: 04/06/22
Time Collected: 11:15
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/10/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/14/22				
Preparation Date: 04/12/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-33-01 (0-5)
Sample No: 22-2256-023

Date Collected: 04/06/22
Time Collected: 11:15
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/14/22		Preparation Date: 04/12/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-33-01 (0-5)
Sample No: 22-2256-023

Date Collected: 04/06/22
Time Collected: 11:15
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/14/22		Preparation Date: 04/12/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals	Method: 6010C	Preparation Method 3050B		
Analysis Date: 04/11/22		Preparation Date: 04/08/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.3	1.0	mg/kg	
Barium	47.3	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	1.5	0.5	mg/kg	
Calcium	80,300	50	mg/kg	
Chromium	15.3	0.5	mg/kg	
Cobalt	7.1	0.5	mg/kg	
Copper	17.9	0.5	mg/kg	
Iron	15,800	5.0	mg/kg	
Lead	8.7	0.5	mg/kg	
Magnesium	41,000	50	mg/kg	
Manganese	307	0.5	mg/kg	
Nickel	18.1	0.5	mg/kg	
Potassium	1,780	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	270	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	19.3	1.0	mg/kg	
Zinc	38.1	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-33-01 (0-5)
Sample No: 22-2256-023

Date Collected: 04/06/22
Time Collected: 11:15
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/08/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/18/22 14:10				
pH @ 25°C, 1:2	8.63		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/11/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/13/22				
Preparation Method 3010A				
Preparation Date: 04/12/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.4	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: 04/13/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/11/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-33-01 (0-5)
Sample No: 22-2256-023

Date Collected: 04/06/22
Time Collected: 11:15
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/14/22		Preparation Date: 04/12/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.013	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.009	0.005	mg/L	
Iron	9.6	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/13/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	99.9	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	95.8	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	116.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	72	45	112
8270C	2-Fluorophenol (Surr)	%R:	63	41	84
8270C	d14-Terphenyl (Surr)	%R:	99	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	83	35	105
8270C	Phenol-d5 (surr)	%R:	76	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/06/22

Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5

Time Collected: 11:16

Sample ID: 3919-COV-33-01 (5-10)

Date Received: 04/07/22

Sample No: 22-2256-024

Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/07/22				
Total Solids	86.60		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/10/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-33-01 (5-10)
Sample No: 22-2256-024

Date Collected: 04/06/22
Time Collected: 11:16
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/10/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/14/22				
Preparation Date: 04/12/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-33-01 (5-10)
Sample No: 22-2256-024

Date Collected: 04/06/22
Time Collected: 11:16
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/14/22		Preparation Date: 04/12/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-33-01 (5-10)
Sample No: 22-2256-024

Date Collected: 04/06/22
Time Collected: 11:16
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/14/22		Preparation Date: 04/12/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/11/22		Preparation Date: 04/08/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.6	1.0	mg/kg	
Barium	41.5	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	1.8	0.5	mg/kg	
Calcium	78,000	50	mg/kg	
Chromium	17.7	0.5	mg/kg	
Cobalt	10.6	0.5	mg/kg	
Copper	21.7	0.5	mg/kg	
Iron	19,100	5.0	mg/kg	
Lead	10.0	0.5	mg/kg	
Magnesium	42,600	50	mg/kg	
Manganese	388	0.5	mg/kg	
Nickel	25.3	0.5	mg/kg	
Potassium	2,430	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	294	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	22.7	1.0	mg/kg	
Zinc	40.9	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-33-01 (5-10)
Sample No: 22-2256-024

Date Collected: 04/06/22
Time Collected: 11:16
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/14/22		Preparation Date: 04/12/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.007	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.006	0.005	mg/L	
Iron	5.5	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/13/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary: Surrogate Recovery				%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	93.8	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	95.7	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	99	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	112	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	74	45	112
8270C	2-Fluorophenol (Surr)	%R:	61.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	95	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	82	35	105
8270C	Phenol-d5 (surr)	%R:	76	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-33-02 (0-5)
Sample No: 22-2256-025

Date Collected: 04/06/22
Time Collected: 11:20
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/11/22				
Total Solids	87.16		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/10/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-33-02 (0-5)
Sample No: 22-2256-025

Date Collected: 04/06/22
Time Collected: 11:20
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/10/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/14/22				
Preparation Date: 04/12/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-33-02 (0-5)
Sample No: 22-2256-025

Date Collected: 04/06/22
Time Collected: 11:20
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/14/22		Preparation Date: 04/12/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-33-02 (0-5)
Sample No: 22-2256-025

Date Collected: 04/06/22
Time Collected: 11:20
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/14/22		Preparation Date: 04/12/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/11/22		Preparation Date: 04/08/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.8	1.0	mg/kg	
Barium	34.3	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	1.6	0.5	mg/kg	
Calcium	83,100	50	mg/kg	
Chromium	15.1	0.5	mg/kg	
Cobalt	9.0	0.5	mg/kg	
Copper	19.6	0.5	mg/kg	
Iron	16,800	5.0	mg/kg	
Lead	8.9	0.5	mg/kg	
Magnesium	45,400	50	mg/kg	
Manganese	399	0.5	mg/kg	
Nickel	21.5	0.5	mg/kg	
Potassium	1,810	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	199	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	20.1	1.0	mg/kg	
Zinc	38.6	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-33-02 (0-5)
Sample No: 22-2256-025

Date Collected: 04/06/22
Time Collected: 11:20
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/08/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/18/22 14:10				
pH @ 25°C, 1:2	8.49		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/11/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/13/22				
Preparation Method 3010A				
Preparation Date: 04/12/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.3	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: 04/13/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/11/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-33-02 (0-5)
Sample No: 22-2256-025

Date Collected: 04/06/22
Time Collected: 11:20
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/14/22		Preparation Date: 04/12/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.014	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.010	0.005	mg/L	
Iron	9.8	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/13/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	99	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	95	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	118	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	71	45	112
8270C	2-Fluorophenol (Surr)	%R:	61.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	103	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	82	35	105
8270C	Phenol-d5 (surr)	%R:	77	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-33-02 (5-10)
Sample No: 22-2256-026

Date Collected: 04/06/22
Time Collected: 11:21
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/07/22				
Total Solids	86.27		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/10/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-33-02 (5-10)
Sample No: 22-2256-026

Date Collected: 04/06/22
Time Collected: 11:21
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/10/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/14/22				
Preparation Date: 04/12/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-33-02 (5-10)
Sample No: 22-2256-026

Date Collected: 04/06/22
Time Collected: 11:21
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/14/22		Preparation Date: 04/12/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-33-02 (5-10)
Sample No: 22-2256-026

Date Collected: 04/06/22
Time Collected: 11:21
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/14/22		Preparation Date: 04/12/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals	Method: 6010C	Preparation Method 3050B		
Analysis Date: 04/11/22		Preparation Date: 04/08/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.0	1.0	mg/kg	
Barium	37.3	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	1.8	0.5	mg/kg	
Calcium	78,600	50	mg/kg	
Chromium	18.2	0.5	mg/kg	
Cobalt	11.4	0.5	mg/kg	
Copper	22.0	0.5	mg/kg	
Iron	19,200	5.0	mg/kg	
Lead	10.6	0.5	mg/kg	
Magnesium	42,700	50	mg/kg	
Manganese	486	0.5	mg/kg	
Nickel	26.6	0.5	mg/kg	
Potassium	2,420	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	222	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	22.3	1.0	mg/kg	
Zinc	54.6	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-33-02 (5-10)
Sample No: 22-2256-026

Date Collected: 04/06/22
Time Collected: 11:21
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/14/22		Preparation Date: 04/12/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	3.3	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/13/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary: Surrogate Recovery				%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	94.8	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	96.1	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	96.4	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	117.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	76	45	112
8270C	2-Fluorophenol (Surr)	%R:	62	41	84
8270C	d14-Terphenyl (Surr)	%R:	94	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	82	35	105
8270C	Phenol-d5 (surr)	%R:	77	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/11/22

Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05

Time Collected: 9:45

Sample ID: 3919-COV-41-04 (0-5)

Date Received: 04/12/22

Sample No: 22-2423-013

Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	75.20		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/19/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/11/22

Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05

Time Collected: 9:45

Sample ID: 3919-COV-41-04 (0-5)

Date Received: 04/12/22

Sample No: 22-2423-013

Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/19/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/25/22				
Preparation Date: 04/22/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-41-04 (0-5)
Sample No: 22-2423-013

Date Collected: 04/11/22
Time Collected: 9:45
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/25/22		Preparation Date: 04/22/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/11/22

Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05

Time Collected: 9:45

Sample ID: 3919-COV-41-04 (0-5)

Date Received: 04/12/22

Sample No: 22-2423-013

Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/25/22		Preparation Date: 04/22/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/29/22		Preparation Date: 04/22/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.2	1.0	mg/kg	
Barium	62.5	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	139,000	50	mg/kg	
Chromium	14.9	0.5	mg/kg	
Cobalt	10.1	0.5	mg/kg	
Copper	18.6	0.5	mg/kg	
Iron	18,500	5.0	mg/kg	
Lead	9.8	0.5	mg/kg	
Magnesium	27,500	50	mg/kg	
Manganese	510	0.5	mg/kg	
Nickel	20.3	0.5	mg/kg	
Potassium	1,170	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	437	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	25.9	1.0	mg/kg	
Zinc	31.2	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC. **Date Collected:** 04/11/22
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05 **Time Collected:** 9:45
Sample ID: 3919-COV-41-04 (0-5) **Date Received:** 04/12/22
Sample No: 22-2423-013 **Date Reported:** 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/27/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/28/22 12:45				
pH @ 25°C, 1:2	8.71		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/20/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 04/29/22 Preparation Date: 04/25/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 05/03/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/20/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-41-04 (0-5)
Sample No: 22-2423-013

Date Collected: 04/11/22
Time Collected: 9:45
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/06/22		Preparation Date: 05/05/22		
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	0.013	0.005	mg/L	
Iron	22.4	0.1	mg/L	
Lead	0.005	0.005	mg/L	
Manganese	0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/05/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	97.5	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.6	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	102.3	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	82.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	69	45	112
8270C	2-Fluorophenol (Surr)	%R:	60.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	99	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	70	35	105
8270C	Phenol-d5 (surr)	%R:	70.5	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-41-04 (5-11)
Sample No: 22-2423-014

Date Collected: 04/11/22
Time Collected: 9:46
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	89.03		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/19/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-41-04 (5-11)
Sample No: 22-2423-014

Date Collected: 04/11/22
Time Collected: 9:46
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/19/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/25/22				
Preparation Date: 04/22/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-41-04 (5-11)
Sample No: 22-2423-014

Date Collected: 04/11/22
Time Collected: 9:46
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/25/22		Preparation Date: 04/22/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-41-04 (5-11)
Sample No: 22-2423-014

Date Collected: 04/11/22
Time Collected: 9:46
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/25/22		Preparation Date: 04/22/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/29/22		Preparation Date: 04/22/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	2.6	1.0	mg/kg	
Barium	23.1	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	75,400	50	mg/kg	
Chromium	8.9	0.5	mg/kg	
Cobalt	4.0	0.5	mg/kg	
Copper	9.9	0.5	mg/kg	
Iron	9,530	5.0	mg/kg	
Lead	3.7	0.5	mg/kg	
Magnesium	37,500	50	mg/kg	
Manganese	243	0.5	mg/kg	
Nickel	10.2	0.5	mg/kg	
Potassium	1,010	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	263	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	16.3	1.0	mg/kg	
Zinc	21.1	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC. **Date Collected:** 04/11/22
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05 **Time Collected:** 9:46
Sample ID: 3919-COV-41-04 (5-11) **Date Received:** 04/12/22
Sample No: 22-2423-014 **Date Reported:** 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/27/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/28/22 12:45				
pH @ 25°C, 1:2	8.72		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/20/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 04/29/22 Preparation Date: 04/25/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.5	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 05/03/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/20/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-41-04 (5-11)
Sample No: 22-2423-014

Date Collected: 04/11/22
Time Collected: 9:46
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/06/22		Preparation Date: 05/05/22		
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	0.011	0.005	mg/L	
Iron	8.5	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/05/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	97.9	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.8	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	103.5	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	81.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	65	45	112
8270C	2-Fluorophenol (Surr)	%R:	59	41	84
8270C	d14-Terphenyl (Surr)	%R:	94	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	66	35	105
8270C	Phenol-d5 (surr)	%R:	67	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-06 (0-5)
Sample No: 22-2256-029

Date Collected: 04/06/22
Time Collected: 13:15
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/11/22				
Total Solids	78.80		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/12/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-06 (0-5)
Sample No: 22-2256-029

Date Collected: 04/06/22
Time Collected: 13:15
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/12/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/14/22				
Preparation Date: 04/13/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-06 (0-5)
Sample No: 22-2256-029

Date Collected: 04/06/22
Time Collected: 13:15
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/14/22		Preparation Date: 04/13/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-06 (0-5)
Sample No: 22-2256-029

Date Collected: 04/06/22
Time Collected: 13:15
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/14/22		Preparation Date: 04/13/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/12/22		Preparation Date: 04/11/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.1	1.0	mg/kg	
Barium	87.0	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	3,740	50	mg/kg	
Chromium	21.1	0.5	mg/kg	
Cobalt	12.3	0.5	mg/kg	
Copper	25.2	0.5	mg/kg	
Iron	17,500	5.0	mg/kg	
Lead	11.7	0.5	mg/kg	
Magnesium	4,760	50	mg/kg	
Manganese	266	0.5	mg/kg	
Nickel	27.3	0.5	mg/kg	
Potassium	934	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	836	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	30.3	1.0	mg/kg	
Zinc	48.9	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-06 (0-5)
Sample No: 22-2256-029

Date Collected: 04/06/22
Time Collected: 13:15
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/14/22		Preparation Date: 04/12/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.017	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.018	0.005	mg/L	
Iron	10.3	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/13/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	100.4	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.6	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	103.7	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	80.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	70	45	112
8270C	2-Fluorophenol (Surr)	%R:	67	41	84
8270C	d14-Terphenyl (Surr)	%R:	96	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	73	35	105
8270C	Phenol-d5 (surr)	%R:	75	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/06/22

Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5

Time Collected: 13:16

Sample ID: 3919-COV-41-06 (5-11)

Date Received: 04/07/22

Sample No: 22-2256-030

Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/12/22				
Total Solids	87.85		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/12/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-06 (5-11)
Sample No: 22-2256-030

Date Collected: 04/06/22
Time Collected: 13:16
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/12/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/14/22				
Preparation Date: 04/13/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-06 (5-11)
Sample No: 22-2256-030

Date Collected: 04/06/22
Time Collected: 13:16
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/14/22		Preparation Date: 04/13/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-06 (5-11)
Sample No: 22-2256-030

Date Collected: 04/06/22
Time Collected: 13:16
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/14/22		Preparation Date: 04/13/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/12/22		Preparation Date: 04/11/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.0	1.0	mg/kg	
Barium	31.7	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	89,300	50	mg/kg	
Chromium	16.7	0.5	mg/kg	
Cobalt	10.6	0.5	mg/kg	
Copper	21.8	0.5	mg/kg	
Iron	17,300	5.0	mg/kg	
Lead	9.8	0.5	mg/kg	
Magnesium	47,800	50	mg/kg	
Manganese	437	0.5	mg/kg	
Nickel	26.4	0.5	mg/kg	
Potassium	2,400	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	283	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	21.4	1.0	mg/kg	
Zinc	43.5	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-06 (5-11)
Sample No: 22-2256-030

Date Collected: 04/06/22
Time Collected: 13:16
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/14/22		Preparation Date: 04/12/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	1.0	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	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/13/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	88.1	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.3	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	101.7	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	73	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	71	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	66	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	94	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	76	35 -	105
8270C	Phenol-d5 (surr)	%R:	73.5	50 -	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/06/22

Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5

Time Collected: 13:10

Sample ID: 3919-COV-41-07 (0-5)

Date Received: 04/07/22

Sample No: 22-2256-031

Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/12/22				
Total Solids	85.97		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/12/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-07 (0-5)
Sample No: 22-2256-031

Date Collected: 04/06/22
Time Collected: 13:10
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/12/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/14/22				
Preparation Date: 04/13/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-07 (0-5)
Sample No: 22-2256-031

Date Collected: 04/06/22
Time Collected: 13:10
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/14/22		Preparation Date: 04/13/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-07 (0-5)
Sample No: 22-2256-031

Date Collected: 04/06/22
Time Collected: 13:10
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/14/22		Preparation Date: 04/13/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/12/22		Preparation Date: 04/11/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.9	1.0	mg/kg	
Barium	37.6	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	77,200	50	mg/kg	
Chromium	15.4	0.5	mg/kg	
Cobalt	13.2	0.5	mg/kg	
Copper	21.4	0.5	mg/kg	
Iron	17,300	5.0	mg/kg	
Lead	10.6	0.5	mg/kg	
Magnesium	40,600	50	mg/kg	
Manganese	540	0.5	mg/kg	
Nickel	27.0	0.5	mg/kg	
Potassium	1,880	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	421	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	20.6	1.0	mg/kg	
Zinc	40.5	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-07 (0-5)
Sample No: 22-2256-031

Date Collected: 04/06/22
Time Collected: 13:10
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/11/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/20/22 10:46				
pH @ 25°C, 1:2	8.29		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/11/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/13/22				
Preparation Method 3010A				
Preparation Date: 04/12/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.9	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 04/13/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/11/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-07 (0-5)
Sample No: 22-2256-031

Date Collected: 04/06/22
Time Collected: 13:10
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/14/22		Preparation Date: 04/12/22		
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	< 0.005	0.005	mg/L	
Iron	4.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/13/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98.9	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	100.1	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	105.5	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	80.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	66	45	112
8270C	2-Fluorophenol (Surr)	%R:	58.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	97	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	68	35	105
8270C	Phenol-d5 (surr)	%R:	70	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-07 (5-11)
Sample No: 22-2256-032

Date Collected: 04/06/22
Time Collected: 13:11
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/12/22				
Total Solids	87.07		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/12/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-07 (5-11)
Sample No: 22-2256-032

Date Collected: 04/06/22
Time Collected: 13:11
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/12/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/18/22				
Preparation Date: 04/13/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-07 (5-11)
Sample No: 22-2256-032

Date Collected: 04/06/22
Time Collected: 13:11
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/18/22		Preparation Date: 04/13/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-07 (5-11)
Sample No: 22-2256-032

Date Collected: 04/06/22
Time Collected: 13:11
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/18/22		Preparation Date: 04/13/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/12/22		Preparation Date: 04/11/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.0	1.0	mg/kg	
Barium	28.6	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	83,000	50	mg/kg	
Chromium	16.3	0.5	mg/kg	
Cobalt	9.8	0.5	mg/kg	
Copper	26.8	0.5	mg/kg	
Iron	16,000	5.0	mg/kg	
Lead	10.2	0.5	mg/kg	
Magnesium	44,000	50	mg/kg	
Manganese	388	0.5	mg/kg	
Nickel	24.4	0.5	mg/kg	
Potassium	2,300	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	294	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	20.3	1.0	mg/kg	
Zinc	41.2	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-07 (5-11)
Sample No: 22-2256-032

Date Collected: 04/06/22
Time Collected: 13:11
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/14/22		Preparation Date: 04/12/22		
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	0.006	0.005	mg/L	
Iron	5.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/13/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	91.7	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	104.2	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	67.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	71	45	112
8270C	2-Fluorophenol (Surr)	%R:	66	41	84
8270C	d14-Terphenyl (Surr)	%R:	89	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	77	35	105
8270C	Phenol-d5 (surr)	%R:	74.5	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/06/22

Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5

Time Collected: 13:00

Sample ID: 3919-COV-41-08 (0-5)

Date Received: 04/07/22

Sample No: 22-2256-033

Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/07/22				
Total Solids	86.28		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/12/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-08 (0-5)
Sample No: 22-2256-033

Date Collected: 04/06/22
Time Collected: 13:00
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/12/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/14/22				
Preparation Date: 04/13/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-08 (0-5)
Sample No: 22-2256-033

Date Collected: 04/06/22
Time Collected: 13:00
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/14/22		Preparation Date: 04/13/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-08 (0-5)
Sample No: 22-2256-033

Date Collected: 04/06/22
Time Collected: 13:00
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/14/22		Preparation Date: 04/13/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/12/22		Preparation Date: 04/11/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.5	1.0	mg/kg	
Barium	49.3	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	74,100	50	mg/kg	
Chromium	13.8	0.5	mg/kg	
Cobalt	7.7	0.5	mg/kg	
Copper	19.3	0.5	mg/kg	
Iron	15,100	5.0	mg/kg	
Lead	7.8	0.5	mg/kg	
Magnesium	39,100	50	mg/kg	
Manganese	355	0.5	mg/kg	
Nickel	20.3	0.5	mg/kg	
Potassium	1,920	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	202	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	18.2	1.0	mg/kg	
Zinc	38.2	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-08 (0-5)
Sample No: 22-2256-033

Date Collected: 04/06/22
Time Collected: 13:00
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/11/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/20/22 10:46				
pH @ 25°C, 1:2	8.59		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/11/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/13/22				
Preparation Method 3010A				
Preparation Date: 04/12/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.9	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: 04/13/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/11/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-08 (0-5)
Sample No: 22-2256-033

Date Collected: 04/06/22
Time Collected: 13:00
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/14/22		Preparation Date: 04/12/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.017	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.014	0.005	mg/L	
Iron	13.8	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/13/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
Method	Analyte	QC Result	Low	High	
5035A/8260B	4-Bromofluorobenzene (Surr)	%R: 97.2	86	117	
5035A/8260B	d8-Toluene (Surr)	%R: 99	90	110	
5035A/8260B	Dibromofluoromethane (Surr)	%R: 102.4	77	120	
8270C	2,4,6-Tribromophenol (Surr)	%R: 78	59	131	
8270C	2-Fluorobiphenyl (Surr)	%R: 69	45	112	
8270C	2-Fluorophenol (Surr)	%R: 65	41	84	
8270C	d14-Terphenyl (Surr)	%R: 90	56	120	
8270C	d5-Nitrobenzene (Surr)	%R: 75	35	105	
8270C	Phenol-d5 (surr)	%R: 73	50	100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/06/22

Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5

Time Collected: 13:01

Sample ID: 3919-COV-41-08 (5-11)

Date Received: 04/07/22

Sample No: 22-2256-034

Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/07/22				
Total Solids	86.34		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/12/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-08 (5-11)
Sample No: 22-2256-034

Date Collected: 04/06/22
Time Collected: 13:01
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/12/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/14/22				
Preparation Date: 04/13/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-08 (5-11)
Sample No: 22-2256-034

Date Collected: 04/06/22
Time Collected: 13:01
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/14/22		Preparation Date: 04/13/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-08 (5-11)
Sample No: 22-2256-034

Date Collected: 04/06/22
Time Collected: 13:01
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/14/22		Preparation Date: 04/13/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals	Method: 6010C	Preparation Method 3050B		
Analysis Date: 04/12/22		Preparation Date: 04/11/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.7	1.0	mg/kg	
Barium	40.6	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	86,800	50	mg/kg	
Chromium	16.1	0.5	mg/kg	
Cobalt	9.7	0.5	mg/kg	
Copper	20.6	0.5	mg/kg	
Iron	18,700	5.0	mg/kg	
Lead	10.7	0.5	mg/kg	
Magnesium	46,700	50	mg/kg	
Manganese	401	0.5	mg/kg	
Nickel	25.0	0.5	mg/kg	
Potassium	2,210	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	221	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	21.3	1.0	mg/kg	
Zinc	44.0	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-08 (5-11)
Sample No: 22-2256-034

Date Collected: 04/06/22
Time Collected: 13:01
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/11/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/20/22 10:46				
pH @ 25°C, 1:2	8.58		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/11/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/13/22				
Preparation Method 3010A				
Preparation Date: 04/12/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.9	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: 04/14/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/11/22				
SPLP Metals Extraction				
Complete				
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-08 (5-11)
Sample No: 22-2256-034

Date Collected: 04/06/22
Time Collected: 13:01
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/14/22		Preparation Date: 04/12/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.011	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.009	0.005	mg/L	
Iron	8.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/13/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	89.4	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.6	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	103.2	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	73.5	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	66	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	62.5	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	90	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	73	35 -	105
8270C	Phenol-d5 (surr)	%R:	70.5	50 -	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-09 (0-5)
Sample No: 22-2256-035

Date Collected: 04/06/22
Time Collected: 12:55
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/07/22				
Total Solids	88.26		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/12/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-09 (0-5)
Sample No: 22-2256-035

Date Collected: 04/06/22
Time Collected: 12:55
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/12/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/14/22				
Preparation Date: 04/13/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-09 (0-5)
Sample No: 22-2256-035

Date Collected: 04/06/22
Time Collected: 12:55
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/14/22		Preparation Date: 04/13/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-09 (0-5)
Sample No: 22-2256-035

Date Collected: 04/06/22
Time Collected: 12:55
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/14/22		Preparation Date: 04/13/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/12/22		Preparation Date: 04/11/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.3	1.0	mg/kg	
Barium	20.0	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	144,000	50	mg/kg	
Chromium	9.6	0.5	mg/kg	
Cobalt	5.1	0.5	mg/kg	
Copper	10.4	0.5	mg/kg	
Iron	10,100	5.0	mg/kg	
Lead	5.4	0.5	mg/kg	
Magnesium	82,000	50	mg/kg	
Manganese	385	0.5	mg/kg	
Nickel	11.5	0.5	mg/kg	
Potassium	962	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	314	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	12.6	1.0	mg/kg	
Zinc	18.8	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.	Date Collected: 04/06/22
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5	Time Collected: 12:55
Sample ID: 3919-COV-41-09 (0-5)	Date Received: 04/07/22
Sample No: 22-2256-035	Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/11/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/20/22 10:46				
pH @ 25°C, 1:2	7.90		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/11/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/13/22				
Preparation Method 3010A Preparation Date: 04/12/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	0.006	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	7.0	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: 04/14/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/11/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-09 (0-5)
Sample No: 22-2256-035

Date Collected: 04/06/22
Time Collected: 12:55
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/14/22		Preparation Date: 04/12/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.008	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.008	0.005	mg/L	
Iron	5.9	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	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/13/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98.3	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	102.8	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	79	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	67	45	112
8270C	2-Fluorophenol (Surr)	%R:	63	41	84
8270C	d14-Terphenyl (Surr)	%R:	93	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	72	35	105
8270C	Phenol-d5 (surr)	%R:	72.5	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-09 (5-11)
Sample No: 22-2256-036

Date Collected: 04/06/22
Time Collected: 12:56
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/12/22				
Total Solids	84.14		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/12/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-09 (5-11)
Sample No: 22-2256-036

Date Collected: 04/06/22
Time Collected: 12:56
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/12/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/14/22				
Preparation Date: 04/13/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-09 (5-11)
Sample No: 22-2256-036

Date Collected: 04/06/22
Time Collected: 12:56
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/14/22		Preparation Date: 04/13/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-09 (5-11)
Sample No: 22-2256-036

Date Collected: 04/06/22
Time Collected: 12:56
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/14/22		Preparation Date: 04/13/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/12/22		Preparation Date: 04/11/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.9	1.0	mg/kg	
Barium	24.1	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	60,600	50	mg/kg	
Chromium	13.1	0.5	mg/kg	
Cobalt	7.7	0.5	mg/kg	
Copper	19.8	0.5	mg/kg	
Iron	20,600	5.0	mg/kg	
Lead	9.0	0.5	mg/kg	
Magnesium	38,300	50	mg/kg	
Manganese	253	0.5	mg/kg	
Nickel	21.5	0.5	mg/kg	
Potassium	1,300	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	585	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	38.0	1.0	mg/kg	
Zinc	37.8	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-09 (5-11)
Sample No: 22-2256-036

Date Collected: 04/06/22
Time Collected: 12:56
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/14/22		Preparation Date: 04/12/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.008	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.006	0.005	mg/L	
Iron	6.5	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/14/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	94.2	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.9	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	103.8	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	80	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	62	45	112
8270C	2-Fluorophenol (Surr)	%R:	61	41	84
8270C	d14-Terphenyl (Surr)	%R:	91	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	69	35	105
8270C	Phenol-d5 (surr)	%R:	69	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-10 (0-5)
Sample No: 22-2256-037

Date Collected: 04/06/22
Time Collected: 12:50
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/07/22				
Total Solids	91.10		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/12/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-10 (0-5)
Sample No: 22-2256-037

Date Collected: 04/06/22
Time Collected: 12:50
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/12/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/14/22				
Preparation Date: 04/13/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-10 (0-5)
Sample No: 22-2256-037

Date Collected: 04/06/22
Time Collected: 12:50
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/14/22		Preparation Date: 04/13/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-10 (0-5)
Sample No: 22-2256-037

Date Collected: 04/06/22
Time Collected: 12:50
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/14/22		Preparation Date: 04/13/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals	Method: 6010C	Preparation Method 3050B		
Analysis Date: 04/12/22		Preparation Date: 04/11/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.8	1.0	mg/kg	
Barium	31.4	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	75,600	50	mg/kg	
Chromium	14.2	0.5	mg/kg	
Cobalt	8.0	0.5	mg/kg	
Copper	19.6	0.5	mg/kg	
Iron	16,200	5.0	mg/kg	
Lead	7.7	0.5	mg/kg	
Magnesium	35,100	50	mg/kg	
Manganese	385	0.5	mg/kg	
Nickel	20.6	0.5	mg/kg	
Potassium	1,640	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	700	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	20.4	1.0	mg/kg	
Zinc	34.1	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-10 (0-5)
Sample No: 22-2256-037

Date Collected: 04/06/22
Time Collected: 12:50
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/14/22		Preparation Date: 04/12/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.007	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.006	0.005	mg/L	
Iron	5.5	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/14/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	97.9	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.9	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	106.4	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	79.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	70	45	112
8270C	2-Fluorophenol (Surr)	%R:	74	41	84
8270C	d14-Terphenyl (Surr)	%R:	93	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	78	35	105
8270C	Phenol-d5 (surr)	%R:	82	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/06/22

Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5

Time Collected: 12:51

Sample ID: 3919-COV-41-10 (5-10)

Date Received: 04/07/22

Sample No: 22-2256-038

Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/12/22				
Total Solids	85.88		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/12/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-10 (5-10)
Sample No: 22-2256-038

Date Collected: 04/06/22
Time Collected: 12:51
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/12/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/14/22				
Preparation Date: 04/13/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-10 (5-10)
Sample No: 22-2256-038

Date Collected: 04/06/22
Time Collected: 12:51
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/14/22		Preparation Date: 04/13/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-10 (5-10)
Sample No: 22-2256-038

Date Collected: 04/06/22
Time Collected: 12:51
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/14/22		Preparation Date: 04/13/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals	Method: 6010C	Preparation Method 3050B		
Analysis Date: 04/12/22		Preparation Date: 04/11/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.2	1.0	mg/kg	
Barium	32.2	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	71,800	50	mg/kg	
Chromium	16.1	0.5	mg/kg	
Cobalt	8.5	0.5	mg/kg	
Copper	24.2	0.5	mg/kg	
Iron	19,400	5.0	mg/kg	
Lead	9.7	0.5	mg/kg	
Magnesium	38,200	50	mg/kg	
Manganese	384	0.5	mg/kg	
Nickel	24.1	0.5	mg/kg	
Potassium	2,190	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	211	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	22.7	1.0	mg/kg	
Zinc	40.7	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-10 (5-10)
Sample No: 22-2256-038

Date Collected: 04/06/22
Time Collected: 12:51
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/14/22		Preparation Date: 04/12/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.010	0.005	mg/L	
Iron	2.4	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/14/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	95	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.3	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	103.7	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	74.5	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	67	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	62	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	92	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	72	35 -	105
8270C	Phenol-d5 (surr)	%R:	70.5	50 -	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-11 (0-5)
Sample No: 22-2256-039

Date Collected: 04/06/22
Time Collected: 12:30
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/12/22				
Total Solids	85.67		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/12/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-11 (0-5)
Sample No: 22-2256-039

Date Collected: 04/06/22
Time Collected: 12:30
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/12/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/14/22				
Preparation Date: 04/13/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-11 (0-5)
Sample No: 22-2256-039

Date Collected: 04/06/22
Time Collected: 12:30
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/14/22		Preparation Date: 04/13/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-11 (0-5)
Sample No: 22-2256-039

Date Collected: 04/06/22
Time Collected: 12:30
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/14/22		Preparation Date: 04/13/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals	Method: 6010C	Preparation Method 3050B		
Analysis Date: 04/12/22		Preparation Date: 04/11/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.8	1.0	mg/kg	
Barium	32.7	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	71,200	50	mg/kg	
Chromium	30.0	0.5	mg/kg	
Cobalt	9.9	0.5	mg/kg	
Copper	22.9	0.5	mg/kg	
Iron	19,100	5.0	mg/kg	
Lead	9.7	0.5	mg/kg	
Magnesium	37,900	50	mg/kg	
Manganese	380	0.5	mg/kg	
Nickel	26.4	0.5	mg/kg	
Potassium	2,330	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	201	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	19.6	1.0	mg/kg	
Zinc	42.3	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-11 (0-5)
Sample No: 22-2256-039

Date Collected: 04/06/22
Time Collected: 12:30
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/11/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/20/22 10:46				
pH @ 25°C, 1:2	8.22		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/11/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/13/22				
			Preparation Method 3010A	
			Preparation Date: 04/12/22	
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.9	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: 04/14/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/11/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-11 (0-5)
Sample No: 22-2256-039

Date Collected: 04/06/22
Time Collected: 12:30
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/14/22		Preparation Date: 04/12/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.009	0.005	mg/L	
Iron	1.5	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/14/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	99.6	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	100	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	105.2	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	74.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	76	45	112
8270C	2-Fluorophenol (Surr)	%R:	64	41	84
8270C	d14-Terphenyl (Surr)	%R:	92	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	74	35	105
8270C	Phenol-d5 (surr)	%R:	74	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/06/22

Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5

Time Collected: 12:31

Sample ID: 3919-COV-41-11 (5-10)

Date Received: 04/07/22

Sample No: 22-2256-040

Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/12/22				
Total Solids	86.83		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/12/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-11 (5-10)
Sample No: 22-2256-040

Date Collected: 04/06/22
Time Collected: 12:31
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/12/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/18/22				
Preparation Date: 04/14/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-11 (5-10)
Sample No: 22-2256-040

Date Collected: 04/06/22
Time Collected: 12:31
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/18/22		Preparation Date: 04/14/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-11 (5-10)
Sample No: 22-2256-040

Date Collected: 04/06/22
Time Collected: 12:31
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/18/22		Preparation Date: 04/14/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/12/22		Preparation Date: 04/11/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.8	1.0	mg/kg	
Barium	28.8	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	77,100	50	mg/kg	
Chromium	15.7	0.5	mg/kg	
Cobalt	11.4	0.5	mg/kg	
Copper	21.1	0.5	mg/kg	
Iron	19,900	5.0	mg/kg	
Lead	10.7	0.5	mg/kg	
Magnesium	40,400	50	mg/kg	
Manganese	384	0.5	mg/kg	
Nickel	25.6	0.5	mg/kg	
Potassium	1,940	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	256	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	31.2	1.0	mg/kg	
Zinc	43.0	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-11 (5-10)
Sample No: 22-2256-040

Date Collected: 04/06/22
Time Collected: 12:31
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/11/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/20/22 10:46				
pH @ 25°C, 1:2	8.21		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/11/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/13/22				
Preparation Method 3010A				
Preparation Date: 04/12/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.3	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: 04/14/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/11/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-11 (5-10)
Sample No: 22-2256-040

Date Collected: 04/06/22
Time Collected: 12:31
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/14/22		Preparation Date: 04/12/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.011	0.005	mg/L	
Iron	1.8	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/14/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	92.4	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	100.1	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	105.8	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	110	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	70	45	112
8270C	2-Fluorophenol (Surr)	%R:	64.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	89	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	78	35	105
8270C	Phenol-d5 (surr)	%R:	80	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-11 (10-15)
Sample No: 22-2256-041

Date Collected: 04/06/22
Time Collected: 12:32
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/07/22				
Total Solids	87.27		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/12/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-11 (10-15)
Sample No: 22-2256-041

Date Collected: 04/06/22
Time Collected: 12:32
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/12/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/18/22				
Preparation Date: 04/14/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-11 (10-15)
Sample No: 22-2256-041

Date Collected: 04/06/22
Time Collected: 12:32
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/18/22		Preparation Date: 04/14/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-11 (10-15)
Sample No: 22-2256-041

Date Collected: 04/06/22
Time Collected: 12:32
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/18/22		Preparation Date: 04/14/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals	Method: 6010C	Preparation Method 3050B		
Analysis Date: 04/12/22		Preparation Date: 04/11/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.7	1.0	mg/kg	
Barium	25.2	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	77,500	50	mg/kg	
Chromium	13.1	0.5	mg/kg	
Cobalt	8.3	0.5	mg/kg	
Copper	18.5	0.5	mg/kg	
Iron	14,800	5.0	mg/kg	
Lead	8.2	0.5	mg/kg	
Magnesium	40,700	50	mg/kg	
Manganese	364	0.5	mg/kg	
Nickel	20.4	0.5	mg/kg	
Potassium	1,800	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	158	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	16.8	1.0	mg/kg	
Zinc	32.9	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-11 (10-15)
Sample No: 22-2256-041

Date Collected: 04/06/22
Time Collected: 12:32
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/11/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/20/22 10:46				
pH @ 25°C, 1:2	8.03		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/11/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/13/22				
Preparation Method 3010A				
Preparation Date: 04/12/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.2	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	2.0	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: 04/14/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/11/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-11 (10-15)
Sample No: 22-2256-041

Date Collected: 04/06/22
Time Collected: 12:32
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/14/22		Preparation Date: 04/12/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.006	0.005	mg/L	
Iron	0.7	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/14/22			
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: 91.8	86	117
5035A/8260B	d8-Toluene (Surr)	%R: 97.7	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 102.2	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R: 109	59	131
8270C	2-Fluorobiphenyl (Surr)	%R: 63	45	112
8270C	2-Fluorophenol (Surr)	%R: 56.5	41	84
8270C	d14-Terphenyl (Surr)	%R: 88	56	120
8270C	d5-Nitrobenzene (Surr)	%R: 65	35	105
8270C	Phenol-d5 (surr)	%R: 75.5	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-11 (15-20)
Sample No: 22-2256-042

Date Collected: 04/06/22
Time Collected: 12:33
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/13/22				
Total Solids	85.41		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/12/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-11 (15-20)
Sample No: 22-2256-042

Date Collected: 04/06/22
Time Collected: 12:33
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/12/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/18/22				
Preparation Date: 04/14/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-11 (15-20)
Sample No: 22-2256-042

Date Collected: 04/06/22
Time Collected: 12:33
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/18/22		Preparation Date: 04/14/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-11 (15-20)
Sample No: 22-2256-042

Date Collected: 04/06/22
Time Collected: 12:33
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/18/22		Preparation Date: 04/14/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/12/22		Preparation Date: 04/11/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.7	1.0	mg/kg	
Barium	31.7	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	74,200	50	mg/kg	
Chromium	14.9	0.5	mg/kg	
Cobalt	9.6	0.5	mg/kg	
Copper	19.8	0.5	mg/kg	
Iron	18,100	5.0	mg/kg	
Lead	9.3	0.5	mg/kg	
Magnesium	38,400	50	mg/kg	
Manganese	378	0.5	mg/kg	
Nickel	25.0	0.5	mg/kg	
Potassium	2,140	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	182	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	18.7	1.0	mg/kg	
Zinc	36.9	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-11 (15-20)
Sample No: 22-2256-042

Date Collected: 04/06/22
Time Collected: 12:33
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/11/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/20/22 10:46				
pH @ 25°C, 1:2	8.37		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/11/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/13/22				
Preparation Method 3010A				
Preparation Date: 04/12/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	2.0	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: 04/14/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/11/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-11 (15-20)
Sample No: 22-2256-042

Date Collected: 04/06/22
Time Collected: 12:33
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/14/22		Preparation Date: 04/14/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	1.9	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/14/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	91	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	99	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	102	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	97.5	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	59	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	51.5	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	83	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	60	35 -	105
8270C	Phenol-d5 (surr)	%R:	71.5	50 -	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-11 (20-25)
Sample No: 22-2256-043

Date Collected: 04/06/22
Time Collected: 12:34
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/07/22				
Total Solids	85.05		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/12/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-11 (20-25)
Sample No: 22-2256-043

Date Collected: 04/06/22
Time Collected: 12:34
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/12/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/18/22				
Preparation Date: 04/14/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-11 (20-25)
Sample No: 22-2256-043

Date Collected: 04/06/22
Time Collected: 12:34
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/18/22		Preparation Date: 04/14/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-11 (20-25)
Sample No: 22-2256-043

Date Collected: 04/06/22
Time Collected: 12:34
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/18/22		Preparation Date: 04/14/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals	Method: 6010C	Preparation Method 3050B		
Analysis Date: 04/12/22		Preparation Date: 04/11/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.6	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	84,800	50	mg/kg	
Chromium	15.5	0.5	mg/kg	
Cobalt	10.0	0.5	mg/kg	
Copper	20.6	0.5	mg/kg	
Iron	20,000	5.0	mg/kg	
Lead	10.6	0.5	mg/kg	
Magnesium	44,800	50	mg/kg	
Manganese	420	0.5	mg/kg	
Nickel	25.0	0.5	mg/kg	
Potassium	2,330	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	195	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	20.9	1.0	mg/kg	
Zinc	40.3	1.0	mg/kg	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	04/06/22
Project ID:	PO# 81.0220714.06, IDOT 199-014 WO #5	Time Collected:	12:34
Sample ID:	3919-COV-41-11 (20-25)	Date Received:	04/07/22
Sample No:	22-2256-043	Date Reported:	04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/11/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/20/22 10:46				
pH @ 25°C, 1:2	8.62		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/12/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/14/22				
Preparation Method 3010A				
Preparation Date: 04/13/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.6	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: 04/14/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/12/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-11 (20-25)
Sample No: 22-2256-043

Date Collected: 04/06/22
Time Collected: 12:34
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/14/22		Preparation Date: 04/14/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	0.9	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	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/14/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	94.6	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.1	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	103.1	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	90	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	54	45	112
8270C	2-Fluorophenol (Surr)	%R:	54.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	83	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	60	35	105
8270C	Phenol-d5 (surr)	%R:	73	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/06/22

Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5

Time Collected: 12:15

Sample ID: 3919-COV-41-12 (0-5)

Date Received: 04/07/22

Sample No: 22-2256-044

Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/07/22				
Total Solids	86.48		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/12/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-12 (0-5)
Sample No: 22-2256-044

Date Collected: 04/06/22
Time Collected: 12:15
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/12/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/18/22				
Preparation Date: 04/14/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-12 (0-5)
Sample No: 22-2256-044

Date Collected: 04/06/22
Time Collected: 12:15
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/18/22		Preparation Date: 04/14/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-12 (0-5)
Sample No: 22-2256-044

Date Collected: 04/06/22
Time Collected: 12:15
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/18/22		Preparation Date: 04/14/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals	Method: 6010C	Preparation Method 3050B		
Analysis Date: 04/12/22		Preparation Date: 04/11/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.1	1.0	mg/kg	
Barium	52.1	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	64,400	50	mg/kg	
Chromium	18.2	0.5	mg/kg	
Cobalt	6.9	0.5	mg/kg	
Copper	21.3	0.5	mg/kg	
Iron	18,300	5.0	mg/kg	
Lead	8.8	0.5	mg/kg	
Magnesium	43,100	50	mg/kg	
Manganese	300	0.5	mg/kg	
Nickel	22.3	0.5	mg/kg	
Potassium	1,610	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	585	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	22.8	1.0	mg/kg	
Zinc	41.2	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-12 (0-5)
Sample No: 22-2256-044

Date Collected: 04/06/22
Time Collected: 12:15
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/11/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/20/22 10:46				
pH @ 25°C, 1:2	8.43		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/12/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/14/22				
Preparation Method 3010A				
Preparation Date: 04/13/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.2	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.6	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: 04/14/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/12/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-12 (0-5)
Sample No: 22-2256-044

Date Collected: 04/06/22
Time Collected: 12:15
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/14/22		Preparation Date: 04/14/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	1.5	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/14/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	96.9	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	100.9	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	103	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	110.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	63	45	112
8270C	2-Fluorophenol (Surr)	%R:	59.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	89	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	71	35	105
8270C	Phenol-d5 (surr)	%R:	75	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-12 (5-10)
Sample No: 22-2256-045

Date Collected: 04/06/22
Time Collected: 12:16
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/07/22				
Total Solids	86.86		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/12/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-12 (5-10)
Sample No: 22-2256-045

Date Collected: 04/06/22
Time Collected: 12:16
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/12/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/18/22				
Preparation Date: 04/14/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-12 (5-10)
Sample No: 22-2256-045

Date Collected: 04/06/22
Time Collected: 12:16
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/18/22		Preparation Date: 04/14/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-12 (5-10)
Sample No: 22-2256-045

Date Collected: 04/06/22
Time Collected: 12:16
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/18/22		Preparation Date: 04/14/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/12/22		Preparation Date: 04/11/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	10.5	1.0	mg/kg	
Barium	99.6	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	59,600	50	mg/kg	
Chromium	14.9	0.5	mg/kg	
Cobalt	47.6	0.5	mg/kg	
Copper	19.6	0.5	mg/kg	
Iron	20,400	5.0	mg/kg	
Lead	11.9	0.5	mg/kg	
Magnesium	32,100	50	mg/kg	
Manganese	1,090	0.5	mg/kg	
Nickel	34.4	0.5	mg/kg	
Potassium	1,830	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	161	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	18.5	1.0	mg/kg	
Zinc	48.9	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-12 (5-10)
Sample No: 22-2256-045

Date Collected: 04/06/22
Time Collected: 12:16
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/11/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/20/22 10:46				
pH @ 25°C, 1:2	8.48		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/12/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/14/22				
		Preparation Method 3010A		
		Preparation Date: 04/13/22		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.3	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: 04/14/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/12/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-12 (5-10)
Sample No: 22-2256-045

Date Collected: 04/06/22
Time Collected: 12:16
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/14/22		Preparation Date: 04/14/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.005	0.005	mg/L	
Iron	3.3	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/14/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary: Surrogate Recovery				%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	91.2	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.1	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	105.4	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	86	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	56	45	112
8270C	2-Fluorophenol (Surr)	%R:	56.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	81	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	67	35	105
8270C	Phenol-d5 (surr)	%R:	74	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/06/22

Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5

Time Collected: 12:17

Sample ID: 3919-COV-41-12 (10-15)

Date Received: 04/07/22

Sample No: 22-2256-046

Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/12/22				
Total Solids	85.79		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/12/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/06/22

Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5

Time Collected: 12:17

Sample ID: 3919-COV-41-12 (10-15)

Date Received: 04/07/22

Sample No: 22-2256-046

Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/12/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/18/22				
Preparation Date: 04/14/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-12 (10-15)
Sample No: 22-2256-046

Date Collected: 04/06/22
Time Collected: 12:17
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/18/22		Preparation Date: 04/14/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-12 (10-15)
Sample No: 22-2256-046

Date Collected: 04/06/22
Time Collected: 12:17
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/18/22		Preparation Date: 04/14/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals	Method: 6010C	Preparation Method 3050B		
Analysis Date: 04/12/22		Preparation Date: 04/11/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.6	1.0	mg/kg	
Barium	27.1	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	74,900	50	mg/kg	
Chromium	14.4	0.5	mg/kg	
Cobalt	8.9	0.5	mg/kg	
Copper	18.0	0.5	mg/kg	
Iron	15,000	5.0	mg/kg	
Lead	8.4	0.5	mg/kg	
Magnesium	39,800	50	mg/kg	
Manganese	370	0.5	mg/kg	
Nickel	22.1	0.5	mg/kg	
Potassium	2,120	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	166	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	17.7	1.0	mg/kg	
Zinc	34.2	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/06/22

Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5

Time Collected: 12:17

Sample ID: 3919-COV-41-12 (10-15)

Date Received: 04/07/22

Sample No: 22-2256-046

Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/12/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/20/22 10:46				
pH @ 25°C, 1:2	8.33		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/12/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/14/22				
			Preparation Method 3010A	
			Preparation Date: 04/13/22	
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.9	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: 04/14/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/12/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-12 (10-15)
Sample No: 22-2256-046

Date Collected: 04/06/22
Time Collected: 12:17
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/14/22		Preparation Date: 04/14/22		
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	0.007	0.005	mg/L	
Iron	6.3	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/14/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary: Surrogate Recovery				%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	91.9	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.2	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	103.6	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	92	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	54	45	112
8270C	2-Fluorophenol (Surr)	%R:	49.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	82	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	59	35	105
8270C	Phenol-d5 (surr)	%R:	65.5	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-12 (15-20)
Sample No: 22-2256-047

Date Collected: 04/06/22
Time Collected: 12:18
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/12/22				
Total Solids	85.31		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/13/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/06/22

Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5

Time Collected: 12:18

Sample ID: 3919-COV-41-12 (15-20)

Date Received: 04/07/22

Sample No: 22-2256-047

Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/13/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/18/22				
Preparation Date: 04/14/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-12 (15-20)
Sample No: 22-2256-047

Date Collected: 04/06/22
Time Collected: 12:18
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/18/22		Preparation Date: 04/14/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-12 (15-20)
Sample No: 22-2256-047

Date Collected: 04/06/22
Time Collected: 12:18
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/18/22		Preparation Date: 04/14/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/12/22		Preparation Date: 04/11/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.0	1.0	mg/kg	
Barium	30.3	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	67,600	50	mg/kg	
Chromium	14.7	0.5	mg/kg	
Cobalt	8.9	0.5	mg/kg	
Copper	17.8	0.5	mg/kg	
Iron	15,700	5.0	mg/kg	
Lead	8.4	0.5	mg/kg	
Magnesium	35,600	50	mg/kg	
Manganese	342	0.5	mg/kg	
Nickel	22.7	0.5	mg/kg	
Potassium	2,140	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	158	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	17.9	1.0	mg/kg	
Zinc	34.0	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-12 (15-20)
Sample No: 22-2256-047

Date Collected: 04/06/22
Time Collected: 12:18
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/14/22		Preparation Date: 04/14/22		
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	< 0.005	0.005	mg/L	
Iron	3.4	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/14/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	95.1	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	97.9	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	103.3	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	94	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	59	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	58	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	82	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	69	35 -	105
8270C	Phenol-d5 (surr)	%R:	73	50 -	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-12 (20-25)
Sample No: 22-2256-048

Date Collected: 04/06/22
Time Collected: 12:19
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/12/22				
Total Solids	84.91		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/13/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-12 (20-25)
Sample No: 22-2256-048

Date Collected: 04/06/22
Time Collected: 12:19
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/13/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/18/22				
Preparation Date: 04/14/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-12 (20-25)
Sample No: 22-2256-048

Date Collected: 04/06/22
Time Collected: 12:19
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/18/22		Preparation Date: 04/14/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-12 (20-25)
Sample No: 22-2256-048

Date Collected: 04/06/22
Time Collected: 12:19
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/18/22		Preparation Date: 04/14/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/12/22		Preparation Date: 04/11/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.0	1.0	mg/kg	
Barium	31.6	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	76,600	50	mg/kg	
Chromium	15.9	0.5	mg/kg	
Cobalt	9.5	0.5	mg/kg	
Copper	18.2	0.5	mg/kg	
Iron	17,100	5.0	mg/kg	
Lead	9.1	0.5	mg/kg	
Magnesium	41,200	50	mg/kg	
Manganese	376	0.5	mg/kg	
Nickel	24.3	0.5	mg/kg	
Potassium	2,610	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	188	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	20.9	1.0	mg/kg	
Zinc	44.1	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-41-12 (20-25)
Sample No: 22-2256-048

Date Collected: 04/06/22
Time Collected: 12:19
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/14/22		Preparation Date: 04/14/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.009	0.005	mg/L	
Iron	0.9	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	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/14/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	92.5	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.6	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	104.4	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	88	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	52	45	112
8270C	2-Fluorophenol (Surr)	%R:	53.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	84	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	62	35	105
8270C	Phenol-d5 (surr)	%R:	71	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-13 (0-5)
Sample No: 22-2365-028

Date Collected: 04/08/22
Time Collected: 11:43
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	81.11		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/15/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-13 (0-5)
Sample No: 22-2365-028

Date Collected: 04/08/22
Time Collected: 11:43
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/15/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/22/22				
Preparation Date: 04/20/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-13 (0-5)
Sample No: 22-2365-028

Date Collected: 04/08/22
Time Collected: 11:43
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-13 (0-5)
Sample No: 22-2365-028

Date Collected: 04/08/22
Time Collected: 11:43
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/25/22		Preparation Date: 04/19/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.0	1.0	mg/kg	
Barium	74.2	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	42,900	50	mg/kg	
Chromium	18.1	0.5	mg/kg	
Cobalt	9.2	0.5	mg/kg	
Copper	20.1	0.5	mg/kg	
Iron	19,500	5.0	mg/kg	
Lead	11.9	0.5	mg/kg	
Magnesium	20,300	50	mg/kg	
Manganese	668	0.5	mg/kg	
Nickel	20.9	0.5	mg/kg	
Potassium	1,710	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	1,280	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	27.4	1.0	mg/kg	
Zinc	43.2	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-13 (0-5)
Sample No: 22-2365-028

Date Collected: 04/08/22
Time Collected: 11:43
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/27/22		Preparation Date: 04/21/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	2.4	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/03/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	96.6	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.8	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	105.6	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	88.5	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	80	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	64	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	102	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	73	35 -	105
8270C	Phenol-d5 (surr)	%R:	76.5	50 -	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-13 (5-10)
Sample No: 22-2365-029

Date Collected: 04/08/22
Time Collected: 11:45
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	83.44		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/15/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-13 (5-10)
Sample No: 22-2365-029

Date Collected: 04/08/22
Time Collected: 11:45
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/15/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/22/22				
Preparation Date: 04/20/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-13 (5-10)
Sample No: 22-2365-029

Date Collected: 04/08/22
Time Collected: 11:45
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-13 (5-10)
Sample No: 22-2365-029

Date Collected: 04/08/22
Time Collected: 11:45
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/25/22		Preparation Date: 04/19/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	8.0	1.0	mg/kg	
Barium	26.8	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	73,500	50	mg/kg	
Chromium	16.1	0.5	mg/kg	
Cobalt	9.0	0.5	mg/kg	
Copper	20.4	0.5	mg/kg	
Iron	23,200	5.0	mg/kg	
Lead	9.0	0.5	mg/kg	
Magnesium	37,700	50	mg/kg	
Manganese	310	0.5	mg/kg	
Nickel	25.6	0.5	mg/kg	
Potassium	2,200	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	832	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	21.2	1.0	mg/kg	
Zinc	44.6	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-13 (5-10)
Sample No: 22-2365-029

Date Collected: 04/08/22
Time Collected: 11:45
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/27/22		Preparation Date: 04/21/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.011	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.007	0.005	mg/L	
Iron	9.6	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/03/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98.9	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	100	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	104.9	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	84.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	73	45	112
8270C	2-Fluorophenol (Surr)	%R:	65	41	84
8270C	d14-Terphenyl (Surr)	%R:	97	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	73	35	105
8270C	Phenol-d5 (surr)	%R:	74.5	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-13 (10-15)
Sample No: 22-2365-030

Date Collected: 04/08/22
Time Collected: 11:47
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	87.61		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/15/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-13 (10-15)
Sample No: 22-2365-030

Date Collected: 04/08/22
Time Collected: 11:47
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/15/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/22/22				
Preparation Date: 04/20/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-13 (10-15)
Sample No: 22-2365-030

Date Collected: 04/08/22
Time Collected: 11:47
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-13 (10-15)
Sample No: 22-2365-030

Date Collected: 04/08/22
Time Collected: 11:47
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/25/22		Preparation Date: 04/19/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.0	1.0	mg/kg	
Barium	16.0	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	92,500	50	mg/kg	
Chromium	8.0	0.5	mg/kg	
Cobalt	4.9	0.5	mg/kg	
Copper	12.6	0.5	mg/kg	
Iron	10,100	5.0	mg/kg	
Lead	5.5	0.5	mg/kg	
Magnesium	47,900	50	mg/kg	
Manganese	333	0.5	mg/kg	
Nickel	12.0	0.5	mg/kg	
Potassium	1,230	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	199	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	13.1	1.0	mg/kg	
Zinc	23.9	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-13 (10-15)
Sample No: 22-2365-030

Date Collected: 04/08/22
Time Collected: 11:47
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/27/22		Preparation Date: 04/21/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	1.5	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/03/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	96.1	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	103.3	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	78.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	71	45	112
8270C	2-Fluorophenol (Surr)	%R:	63	41	84
8270C	d14-Terphenyl (Surr)	%R:	97	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	74	35	105
8270C	Phenol-d5 (surr)	%R:	71.5	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-13 (15-20)
Sample No: 22-2365-031

Date Collected: 04/08/22
Time Collected: 11:49
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	88.66		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/15/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-13 (15-20)
Sample No: 22-2365-031

Date Collected: 04/08/22
Time Collected: 11:49
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/15/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/22/22				
Preparation Date: 04/20/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-13 (15-20)
Sample No: 22-2365-031

Date Collected: 04/08/22
Time Collected: 11:49
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-13 (15-20)
Sample No: 22-2365-031

Date Collected: 04/08/22
Time Collected: 11:49
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/25/22		Preparation Date: 04/19/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.5	1.0	mg/kg	
Barium	23.2	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	92,100	50	mg/kg	
Chromium	12.1	0.5	mg/kg	
Cobalt	8.2	0.5	mg/kg	
Copper	19.9	0.5	mg/kg	
Iron	16,100	5.0	mg/kg	
Lead	9.3	0.5	mg/kg	
Magnesium	48,700	50	mg/kg	
Manganese	399	0.5	mg/kg	
Nickel	20.1	0.5	mg/kg	
Potassium	2,120	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	188	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	16.9	1.0	mg/kg	
Zinc	53.1	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-13 (15-20)
Sample No: 22-2365-031

Date Collected: 04/08/22
Time Collected: 11:49
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/27/22		Preparation Date: 04/21/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	1.2	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/03/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	96.6	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.7	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	103.8	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	123	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	75	45	112
8270C	2-Fluorophenol (Surr)	%R:	62	41	84
8270C	d14-Terphenyl (Surr)	%R:	91	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	83	35	105
8270C	Phenol-d5 (surr)	%R:	79	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-13 (20-25)
Sample No: 22-2365-032

Date Collected: 04/08/22
Time Collected: 11:51
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	85.65		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/15/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-13 (20-25)
Sample No: 22-2365-032

Date Collected: 04/08/22
Time Collected: 11:51
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/15/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/22/22				
Preparation Date: 04/20/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-13 (20-25)
Sample No: 22-2365-032

Date Collected: 04/08/22
Time Collected: 11:51
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-13 (20-25)
Sample No: 22-2365-032

Date Collected: 04/08/22
Time Collected: 11:51
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/25/22		Preparation Date: 04/19/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.9	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	90,900	50	mg/kg	
Chromium	16.3	0.5	mg/kg	
Cobalt	10.0	0.5	mg/kg	
Copper	21.9	0.5	mg/kg	
Iron	18,200	5.0	mg/kg	
Lead	10.3	0.5	mg/kg	
Magnesium	46,500	50	mg/kg	
Manganese	416	0.5	mg/kg	
Nickel	24.8	0.5	mg/kg	
Potassium	2,550	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	199	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	20.7	1.0	mg/kg	
Zinc	42.0	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-13 (20-25)
Sample No: 22-2365-032

Date Collected: 04/08/22
Time Collected: 11:51
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/27/22		Preparation Date: 04/21/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	2.2	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/03/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	95.7	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.7	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	104.4	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	109	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	62	45	112
8270C	2-Fluorophenol (Surr)	%R:	61	41	84
8270C	d14-Terphenyl (Surr)	%R:	88	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	77	35	105
8270C	Phenol-d5 (surr)	%R:	76.5	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-15 (0-5)
Sample No: 22-2365-021

Date Collected: 04/08/22
Time Collected: 11:00
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	81.34		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/15/22				
Acetone	351	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-15 (0-5)
Sample No: 22-2365-021

Date Collected: 04/08/22
Time Collected: 11:00
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/15/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/22/22				
Preparation Date: 04/20/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-15 (0-5)
Sample No: 22-2365-021

Date Collected: 04/08/22
Time Collected: 11:00
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-15 (0-5)
Sample No: 22-2365-021

Date Collected: 04/08/22
Time Collected: 11:00
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/25/22		Preparation Date: 04/19/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	2.1	1.0	mg/kg	
Barium	81.0	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	13,200	50	mg/kg	
Chromium	16.2	0.5	mg/kg	
Cobalt	6.8	0.5	mg/kg	
Copper	22.0	0.5	mg/kg	
Iron	10,900	5.0	mg/kg	
Lead	21.4	0.5	mg/kg	
Magnesium	7,150	50	mg/kg	
Manganese	113	0.5	mg/kg	
Nickel	16.4	0.5	mg/kg	
Potassium	633	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	744	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	24.1	1.0	mg/kg	
Zinc	35.6	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-15 (0-5)
Sample No: 22-2365-021

Date Collected: 04/08/22
Time Collected: 11:00
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/27/22		Preparation Date: 04/21/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.008	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.009	0.005	mg/L	
Iron	3.2	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/03/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	99.1	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.5	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	107.2	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	77.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	72	45	112
8270C	2-Fluorophenol (Surr)	%R:	54.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	85	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	62	35	105
8270C	Phenol-d5 (surr)	%R:	65	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-15 (5-11)
Sample No: 22-2365-022

Date Collected: 04/08/22
Time Collected: 11:02
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	87.28		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/15/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-15 (5-11)
Sample No: 22-2365-022

Date Collected: 04/08/22
Time Collected: 11:02
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/15/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/22/22				
Preparation Date: 04/20/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-15 (5-11)
Sample No: 22-2365-022

Date Collected: 04/08/22
Time Collected: 11:02
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-15 (5-11)
Sample No: 22-2365-022

Date Collected: 04/08/22
Time Collected: 11:02
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/25/22		Preparation Date: 04/19/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	< 1.0	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	93,300	50	mg/kg	
Chromium	10.0	0.5	mg/kg	
Cobalt	4.0	0.5	mg/kg	
Copper	21.1	0.5	mg/kg	
Iron	6,750	5.0	mg/kg	
Lead	7.7	0.5	mg/kg	
Magnesium	56,200	50	mg/kg	
Manganese	217	0.5	mg/kg	
Nickel	11.3	0.5	mg/kg	
Potassium	696	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	705	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	19.4	1.0	mg/kg	
Zinc	36.1	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-15 (5-11)
Sample No: 22-2365-022

Date Collected: 04/08/22
Time Collected: 11:02
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/27/22		Preparation Date: 04/21/22		
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	0.025	0.005	mg/L	
Iron	6.5	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/03/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98.5	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.9	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	103.8	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	70.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	57	45	112
8270C	2-Fluorophenol (Surr)	%R:	52	41	84
8270C	d14-Terphenyl (Surr)	%R:	79	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	57	35	105
8270C	Phenol-d5 (surr)	%R:	58	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-16 (0-5)
Sample No: 22-2365-019

Date Collected: 04/08/22
Time Collected: 10:48
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	81.75		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/15/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-16 (0-5)
Sample No: 22-2365-019

Date Collected: 04/08/22
Time Collected: 10:48
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/15/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/22/22				
Preparation Date: 04/20/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-16 (0-5)
Sample No: 22-2365-019

Date Collected: 04/08/22
Time Collected: 10:48
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-16 (0-5)
Sample No: 22-2365-019

Date Collected: 04/08/22
Time Collected: 10:48
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/19/22		Preparation Date: 04/19/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.3	1.0	mg/kg	
Barium	84.9	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	19,000	50	mg/kg	
Chromium	20.9	0.5	mg/kg	
Cobalt	10.3	0.5	mg/kg	
Copper	20.2	0.5	mg/kg	
Iron	21,300	5.0	mg/kg	
Lead	31.8	0.5	mg/kg	
Magnesium	11,900	50	mg/kg	
Manganese	316	0.5	mg/kg	
Nickel	23.1	0.5	mg/kg	
Potassium	1,120	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	1,030	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	34.9	1.0	mg/kg	
Zinc	48.9	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-16 (0-5)
Sample No: 22-2365-019

Date Collected: 04/08/22
Time Collected: 10:48
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/27/22		Preparation Date: 04/21/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.011	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.013	0.005	mg/L	
Iron	8.6	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/03/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98.2	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.3	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	104.1	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	113.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	65	45	112
8270C	2-Fluorophenol (Surr)	%R:	51	41	84
8270C	d14-Terphenyl (Surr)	%R:	91	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	68	35	105
8270C	Phenol-d5 (surr)	%R:	67	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-16 (5-11)
Sample No: 22-2365-020

Date Collected: 04/08/22
Time Collected: 10:50
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	88.73		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/15/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-16 (5-11)
Sample No: 22-2365-020

Date Collected: 04/08/22
Time Collected: 10:50
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/15/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/22/22				
Preparation Date: 04/20/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-16 (5-11)
Sample No: 22-2365-020

Date Collected: 04/08/22
Time Collected: 10:50
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-16 (5-11)
Sample No: 22-2365-020

Date Collected: 04/08/22
Time Collected: 10:50
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/19/22		Preparation Date: 04/19/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	2.5	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	76,700	50	mg/kg	
Chromium	14.8	0.5	mg/kg	
Cobalt	7.8	0.5	mg/kg	
Copper	17.2	0.5	mg/kg	
Iron	16,400	5.0	mg/kg	
Lead	8.7	0.5	mg/kg	
Magnesium	40,200	50	mg/kg	
Manganese	366	0.5	mg/kg	
Nickel	22.6	0.5	mg/kg	
Potassium	2,020	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	281	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	18.0	1.0	mg/kg	
Zinc	36.9	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-16 (5-11)
Sample No: 22-2365-020

Date Collected: 04/08/22
Time Collected: 10:50
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/25/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/28/22 12:45				
pH @ 25°C, 1:2	8.19		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/18/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/26/22				
Preparation Method 3010A				
Preparation Date: 04/21/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	2.0	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: 05/02/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/18/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-16 (5-11)
Sample No: 22-2365-020

Date Collected: 04/08/22
Time Collected: 10:50
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/27/22		Preparation Date: 04/21/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	0.9	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	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/03/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	89	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R:	97.9	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R:	106.3	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R:	82.5	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R:	77	45 - 112	
8270C	2-Fluorophenol (Surr)	%R:	64.5	41 - 84	
8270C	d14-Terphenyl (Surr)	%R:	94	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R:	74	35 - 105	
8270C	Phenol-d5 (surr)	%R:	75	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-17 (0-5)
Sample No: 22-2365-017

Date Collected: 04/08/22
Time Collected: 10:38
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	86.9		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/15/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-17 (0-5)
Sample No: 22-2365-017

Date Collected: 04/08/22
Time Collected: 10:38
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/15/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/22/22				
Preparation Date: 04/20/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-17 (0-5)
Sample No: 22-2365-017

Date Collected: 04/08/22
Time Collected: 10:38
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-17 (0-5)
Sample No: 22-2365-017

Date Collected: 04/08/22
Time Collected: 10:38
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/19/22		Preparation Date: 04/15/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.6	1.0	mg/kg	
Barium	45.6	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	73,600	50	mg/kg	
Chromium	15.2	0.5	mg/kg	
Cobalt	9.3	0.5	mg/kg	
Copper	21.2	0.5	mg/kg	
Iron	16,700	5.0	mg/kg	
Lead	8.8	0.5	mg/kg	
Magnesium	38,300	50	mg/kg	
Manganese	367	0.5	mg/kg	
Nickel	22.6	0.5	mg/kg	
Potassium	2,120	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	496	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	19.6	1.0	mg/kg	
Zinc	37.3	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-17 (0-5)
Sample No: 22-2365-017

Date Collected: 04/08/22
Time Collected: 10:38
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/25/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/28/22 12:45				
pH @ 25°C, 1:2	8.80		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/18/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/26/22				
Preparation Method 3010A				
Preparation Date: 04/21/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	4.3	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 05/02/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/18/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-17 (0-5)
Sample No: 22-2365-017

Date Collected: 04/08/22
Time Collected: 10:38
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.014	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.012	0.005	mg/L	
Iron	11.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/22/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	97.1	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.8	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:	70	45	112
8270C	2-Fluorophenol (Surr)	%R:	61	41	84
8270C	d14-Terphenyl (Surr)	%R:	89	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	81	35	105
8270C	Phenol-d5 (surr)	%R:	79	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-17 (5-11)
Sample No: 22-2365-018

Date Collected: 04/08/22
Time Collected: 10:40
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	86.73		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/15/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-17 (5-11)
Sample No: 22-2365-018

Date Collected: 04/08/22
Time Collected: 10:40
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/15/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/22/22				
Preparation Date: 04/20/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-17 (5-11)
Sample No: 22-2365-018

Date Collected: 04/08/22
Time Collected: 10:40
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-17 (5-11)
Sample No: 22-2365-018

Date Collected: 04/08/22
Time Collected: 10:40
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/19/22		Preparation Date: 04/15/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.6	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	90,000	50	mg/kg	
Chromium	13.8	0.5	mg/kg	
Cobalt	8.7	0.5	mg/kg	
Copper	19.4	0.5	mg/kg	
Iron	15,900	5.0	mg/kg	
Lead	9.2	0.5	mg/kg	
Magnesium	47,400	50	mg/kg	
Manganese	402	0.5	mg/kg	
Nickel	21.2	0.5	mg/kg	
Potassium	2,100	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	243	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	18.9	1.0	mg/kg	
Zinc	35.3	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC. **Date Collected:** 04/08/22
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood **Time Collected:** 10:40
Sample ID: 41-17 (5-11) **Date Received:** 04/11/22
Sample No: 22-2365-018 **Date Reported:** 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/25/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/28/22 12:45				
pH @ 25°C, 1:2	8.30		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/18/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 04/26/22 Preparation Date: 04/21/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.8	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: 05/02/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/18/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-17 (5-11)
Sample No: 22-2365-018

Date Collected: 04/08/22
Time Collected: 10:40
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	0.9	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	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/03/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	93.8	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.9	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	105.4	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	103	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	68	45	112
8270C	2-Fluorophenol (Surr)	%R:	59	41	84
8270C	d14-Terphenyl (Surr)	%R:	85	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	77	35	105
8270C	Phenol-d5 (surr)	%R:	77	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-19 (0-5)
Sample No: 22-2365-013

Date Collected: 04/08/22
Time Collected: 10:18
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	86.37		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/15/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-19 (0-5)
Sample No: 22-2365-013

Date Collected: 04/08/22
Time Collected: 10:18
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/15/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/22/22				
Preparation Date: 04/20/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-19 (0-5)
Sample No: 22-2365-013

Date Collected: 04/08/22
Time Collected: 10:18
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-19 (0-5)
Sample No: 22-2365-013

Date Collected: 04/08/22
Time Collected: 10:18
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/19/22		Preparation Date: 04/15/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.5	1.0	mg/kg	
Barium	39.1	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	93,700	50	mg/kg	
Chromium	16.0	0.5	mg/kg	
Cobalt	9.0	0.5	mg/kg	
Copper	22.4	0.5	mg/kg	
Iron	22,100	5.0	mg/kg	
Lead	11.8	0.5	mg/kg	
Magnesium	49,200	50	mg/kg	
Manganese	504	0.5	mg/kg	
Nickel	24.7	0.5	mg/kg	
Potassium	1,740	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	963	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	27.7	1.0	mg/kg	
Zinc	39.2	1.0	mg/kg	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	04/08/22
Project ID:	IDOT 199-014 WO#5 IL 47 Lakewood	Time Collected:	10:18
Sample ID:	41-19 (0-5)	Date Received:	04/11/22
Sample No:	22-2365-013	Date Reported:	05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/25/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/28/22 12:45				
pH @ 25°C, 1:2	8.65		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/14/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/21/22				
Preparation Method 3010A				
Preparation Date: 04/20/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.4	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 05/02/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/14/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-19 (0-5)
Sample No: 22-2365-013

Date Collected: 04/08/22
Time Collected: 10:18
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.014	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.008	0.005	mg/L	
Iron	10.7	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/22/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	97	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.7	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	105	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	123	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	73	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	65	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	94	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	84	35 -	105
8270C	Phenol-d5 (surr)	%R:	83.5	50 -	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-19 (5-11)
Sample No: 22-2365-014

Date Collected: 04/08/22
Time Collected: 10:20
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	88.19		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/15/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-19 (5-11)
Sample No: 22-2365-014

Date Collected: 04/08/22
Time Collected: 10:20
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/15/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/22/22				
Preparation Date: 04/20/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-19 (5-11)
Sample No: 22-2365-014

Date Collected: 04/08/22
Time Collected: 10:20
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-19 (5-11)
Sample No: 22-2365-014

Date Collected: 04/08/22
Time Collected: 10:20
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/19/22		Preparation Date: 04/15/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.7	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	86,400	50	mg/kg	
Chromium	16.8	0.5	mg/kg	
Cobalt	9.0	0.5	mg/kg	
Copper	21.1	0.5	mg/kg	
Iron	17,300	5.0	mg/kg	
Lead	9.2	0.5	mg/kg	
Magnesium	45,000	50	mg/kg	
Manganese	390	0.5	mg/kg	
Nickel	24.8	0.5	mg/kg	
Potassium	2,400	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	339	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	21.1	1.0	mg/kg	
Zinc	40.0	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC. **Date Collected:** 04/08/22
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood **Time Collected:** 10:20
Sample ID: 41-19 (5-11) **Date Received:** 04/11/22
Sample No: 22-2365-014 **Date Reported:** 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury		Method: 7471B		
Analysis Date: 04/25/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2		Method: 9045D		
Analysis Date: 04/28/22 12:45				
pH @ 25°C, 1:2	8.21		Units	
TCLP Extraction		Method: 1311		
Analysis Date: 04/14/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/21/22				
Preparation Date: 04/20/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.6	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311		Method: 7470A		
Analysis Date: 05/02/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction		Method: 1312		
Analysis Date: 04/14/22				
SPLP Metals Extraction		Complete		
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-19 (5-11)
Sample No: 22-2365-014

Date Collected: 04/08/22
Time Collected: 10:20
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.007	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	3.7	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/22/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	92.6	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.8	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	105	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	120.5	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	78	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	60	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	94	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	83	35 -	105
8270C	Phenol-d5 (surr)	%R:	80	50 -	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-21 (0-5)
Sample No: 22-2365-009

Date Collected: 04/08/22
Time Collected: 9:59
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	90.85		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/15/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-21 (0-5)
Sample No: 22-2365-009

Date Collected: 04/08/22
Time Collected: 9:59
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/15/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/22/22				
Preparation Date: 04/19/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-21 (0-5)
Sample No: 22-2365-009

Date Collected: 04/08/22
Time Collected: 9:59
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/22/22		Preparation Date: 04/19/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-21 (0-5)
Sample No: 22-2365-009

Date Collected: 04/08/22
Time Collected: 9:59
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/22/22		Preparation Date: 04/19/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/19/22		Preparation Date: 04/15/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	2.3	1.0	mg/kg	
Barium	21.2	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	117,000	50	mg/kg	
Chromium	8.7	0.5	mg/kg	
Cobalt	4.1	0.5	mg/kg	
Copper	12.1	0.5	mg/kg	
Iron	9,970	5.0	mg/kg	
Lead	9.3	0.5	mg/kg	
Magnesium	59,500	50	mg/kg	
Manganese	478	0.5	mg/kg	
Nickel	10.4	0.5	mg/kg	
Potassium	871	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	515	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	14.5	1.0	mg/kg	
Zinc	25.7	1.0	mg/kg	



Analytical Report

Client:	HUFF & HUFF INC.	Date Collected:	04/08/22
Project ID:	IDOT 199-014 WO#5 IL 47 Lakewood	Time Collected:	9:59
Sample ID:	41-21 (0-5)	Date Received:	04/11/22
Sample No:	22-2365-009	Date Reported:	05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Analysis Date: 04/25/22 Mercury	Method: 7471B < 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 04/28/22 12:45 pH @ 25°C, 1:2	Method: 9045D 8.09		Units	
TCLP Extraction Analysis Date: 04/14/22 TCLP Extraction	Method: 1311 Complete			
TCLP Metals Method 1311 Analysis Date: 04/21/22	Method: 6010C	Preparation Method 3010A Preparation Date: 04/20/22		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.8	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 Analysis Date: 04/22/22 Mercury	Method: 7470A < 0.0005	0.0005	mg/L	
SPLP Extraction Analysis Date: 04/14/22 SPLP Metals Extraction	Method: 1312 Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-21 (0-5)
Sample No: 22-2365-009

Date Collected: 04/08/22
Time Collected: 9:59
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	1.8	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/22/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary: Surrogate Recovery				%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	99.1	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.4	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	104.8	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	127	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	77	45	112
8270C	2-Fluorophenol (Surr)	%R:	59	41	84
8270C	d14-Terphenyl (Surr)	%R:	95	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	75	35	105
8270C	Phenol-d5 (surr)	%R:	77.5	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-21 (5-11)
Sample No: 22-2365-010

Date Collected: 04/08/22
Time Collected: 10:02
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	87.74		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/15/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-21 (5-11)
Sample No: 22-2365-010

Date Collected: 04/08/22
Time Collected: 10:02
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/15/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/22/22				
Preparation Date: 04/19/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-21 (5-11)
Sample No: 22-2365-010

Date Collected: 04/08/22
Time Collected: 10:02
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/22/22		Preparation Date: 04/19/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-21 (5-11)
Sample No: 22-2365-010

Date Collected: 04/08/22
Time Collected: 10:02
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/22/22		Preparation Date: 04/19/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/19/22		Preparation Date: 04/15/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	8.9	1.0	mg/kg	
Barium	20.0	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	72,700	50	mg/kg	
Chromium	11.4	0.5	mg/kg	
Cobalt	8.9	0.5	mg/kg	
Copper	30.2	0.5	mg/kg	
Iron	13,100	5.0	mg/kg	
Lead	15.7	0.5	mg/kg	
Magnesium	41,700	50	mg/kg	
Manganese	274	0.5	mg/kg	
Nickel	25.7	0.5	mg/kg	
Potassium	1,290	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	389	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	19.3	1.0	mg/kg	
Zinc	61.1	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-21 (5-11)
Sample No: 22-2365-010

Date Collected: 04/08/22
Time Collected: 10:02
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/25/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/28/22 12:45				
pH @ 25°C, 1:2	7.94		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/14/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/21/22				
Preparation Method 3010A				
Preparation Date: 04/20/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	2.5	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: 04/22/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/14/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-21 (5-11)
Sample No: 22-2365-010

Date Collected: 04/08/22
Time Collected: 10:02
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/22/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	96.5	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.3	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	102.6	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	121.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	71	45	112
8270C	2-Fluorophenol (Surr)	%R:	66	41	84
8270C	d14-Terphenyl (Surr)	%R:	91	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	83	35	105
8270C	Phenol-d5 (surr)	%R:	79.5	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-22 (0-5)
Sample No: 22-2365-007

Date Collected: 04/08/22
Time Collected: 9:48
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	86.66		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/15/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-22 (0-5)
Sample No: 22-2365-007

Date Collected: 04/08/22
Time Collected: 9:48
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/15/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/21/22				
Preparation Date: 04/19/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-22 (0-5)
Sample No: 22-2365-007

Date Collected: 04/08/22
Time Collected: 9:48
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/21/22		Preparation Date: 04/19/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-22 (0-5)
Sample No: 22-2365-007

Date Collected: 04/08/22
Time Collected: 9:48
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		
Analysis Date: 04/21/22		Preparation Method 3540C		
Preparation Date: 04/19/22				
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		
Analysis Date: 04/19/22		Preparation Method 3050B		
Preparation Date: 04/15/22				
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.9	1.0	mg/kg	
Barium	53.4	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	65,800	50	mg/kg	
Chromium	16.9	0.5	mg/kg	
Cobalt	8.9	0.5	mg/kg	
Copper	23.3	0.5	mg/kg	
Iron	19,400	5.0	mg/kg	
Lead	11.5	0.5	mg/kg	
Magnesium	34,600	50	mg/kg	
Manganese	427	0.5	mg/kg	
Nickel	24.8	0.5	mg/kg	
Potassium	1,660	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	919	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	24.0	1.0	mg/kg	
Zinc	43.7	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-22 (0-5)
Sample No: 22-2365-007

Date Collected: 04/08/22
Time Collected: 9:48
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/25/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/28/22 12:45				
pH @ 25°C, 1:2	8.04		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/14/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/21/22				
Preparation Method 3010A Preparation Date: 04/20/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	2.9	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: 04/22/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/14/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-22 (0-5)
Sample No: 22-2365-007

Date Collected: 04/08/22
Time Collected: 9:48
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.007	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.006	0.005	mg/L	
Iron	5.5	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/22/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	104	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	125.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	72	45	112
8270C	2-Fluorophenol (Surr)	%R:	56.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	98	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	73	35	105
8270C	Phenol-d5 (surr)	%R:	77.5	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-22 (5-11)
Sample No: 22-2365-008

Date Collected: 04/08/22
Time Collected: 9:50
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	78.19		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/15/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-22 (5-11)
Sample No: 22-2365-008

Date Collected: 04/08/22
Time Collected: 9:50
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/15/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/21/22				
Preparation Date: 04/19/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-22 (5-11)
Sample No: 22-2365-008

Date Collected: 04/08/22
Time Collected: 9:50
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/21/22		Preparation Date: 04/19/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-22 (5-11)
Sample No: 22-2365-008

Date Collected: 04/08/22
Time Collected: 9:50
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/21/22		Preparation Date: 04/19/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/19/22		Preparation Date: 04/15/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.6	1.0	mg/kg	
Barium	57.9	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	88,600	50	mg/kg	
Chromium	19.3	0.5	mg/kg	
Cobalt	9.8	0.5	mg/kg	
Copper	25.9	0.5	mg/kg	
Iron	23,600	5.0	mg/kg	
Lead	13.5	0.5	mg/kg	
Magnesium	43,500	50	mg/kg	
Manganese	471	0.5	mg/kg	
Nickel	27.4	0.5	mg/kg	
Potassium	1,960	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	1,060	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	27.4	1.0	mg/kg	
Zinc	50.0	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-22 (5-11)
Sample No: 22-2365-008

Date Collected: 04/08/22
Time Collected: 9:50
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/25/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/28/22 12:45				
pH @ 25°C, 1:2	7.95		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/14/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/21/22				
Preparation Method 3010A				
Preparation Date: 04/20/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.2	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	3.1	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: 04/22/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/14/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-22 (5-11)
Sample No: 22-2365-008

Date Collected: 04/08/22
Time Collected: 9:50
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	2.5	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/22/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	96	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	100	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	102	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	116	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	66	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	63	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	93	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	78	35 -	105
8270C	Phenol-d5 (surr)	%R:	76	50 -	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-25 (0-5)
Sample No: 22-2365-001

Date Collected: 04/08/22
Time Collected: 9:15
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	85.14		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/14/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-25 (0-5)
Sample No: 22-2365-001

Date Collected: 04/08/22
Time Collected: 9:15
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/14/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/21/22				
Preparation Date: 04/18/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-25 (0-5)
Sample No: 22-2365-001

Date Collected: 04/08/22
Time Collected: 9:15
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/21/22		Preparation Date: 04/18/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-25 (0-5)
Sample No: 22-2365-001

Date Collected: 04/08/22
Time Collected: 9:15
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/21/22		Preparation Date: 04/18/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/19/22		Preparation Date: 04/15/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	2.1	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	91,900	50	mg/kg	
Chromium	14.6	0.5	mg/kg	
Cobalt	10.5	0.5	mg/kg	
Copper	16.5	0.5	mg/kg	
Iron	14,900	5.0	mg/kg	
Lead	10.7	0.5	mg/kg	
Magnesium	47,400	50	mg/kg	
Manganese	610	0.5	mg/kg	
Nickel	21.4	0.5	mg/kg	
Potassium	1,800	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	280	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	18.7	1.0	mg/kg	
Zinc	33.5	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-25 (0-5)
Sample No: 22-2365-001

Date Collected: 04/08/22
Time Collected: 9:15
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/25/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/28/22 12:45				
pH @ 25°C, 1:2	8.67		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/14/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/21/22				
Preparation Method 3010A				
Preparation Date: 04/20/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.9	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 04/22/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/14/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-25 (0-5)
Sample No: 22-2365-001

Date Collected: 04/08/22
Time Collected: 9:15
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
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	0.009	0.005	mg/L	
Iron	10.9	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	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/22/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	96	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	100	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	106	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	74.5	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	65	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	57.5	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	86	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	66	35 -	105
8270C	Phenol-d5 (surr)	%R:	66.5	50 -	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-25 (5-11)
Sample No: 22-2365-002

Date Collected: 04/08/22
Time Collected: 9:20
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	89.27		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/14/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-25 (5-11)
Sample No: 22-2365-002

Date Collected: 04/08/22
Time Collected: 9:20
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/14/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/21/22				
Preparation Date: 04/18/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-25 (5-11)
Sample No: 22-2365-002

Date Collected: 04/08/22
Time Collected: 9:20
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/21/22		Preparation Date: 04/18/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-25 (5-11)
Sample No: 22-2365-002

Date Collected: 04/08/22
Time Collected: 9:20
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/21/22		Preparation Date: 04/18/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/19/22		Preparation Date: 04/15/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.8	1.0	mg/kg	
Barium	19.2	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	84,200	50	mg/kg	
Chromium	13.1	0.5	mg/kg	
Cobalt	8.7	0.5	mg/kg	
Copper	19.5	0.5	mg/kg	
Iron	15,500	5.0	mg/kg	
Lead	10.4	0.5	mg/kg	
Magnesium	45,000	50	mg/kg	
Manganese	393	0.5	mg/kg	
Nickel	21.6	0.5	mg/kg	
Potassium	1,860	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	182	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	17.2	1.0	mg/kg	
Zinc	44.9	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 41-25 (5-11)
Sample No: 22-2365-002

Date Collected: 04/08/22
Time Collected: 9:20
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	2.4	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/22/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	92	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	98	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	104	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	47.5	*	59 - 131
8270C	2-Fluorobiphenyl (Surr)	%R:	48		45 - 112
8270C	2-Fluorophenol (Surr)	%R:	38	*	41 - 84
8270C	d14-Terphenyl (Surr)	%R:	61		56 - 120
8270C	d5-Nitrobenzene (Surr)	%R:	43		35 - 105
8270C	Phenol-d5 (surr)	%R:	44	*	50 - 100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-02 (0-4)
Sample No: 22-2550-001

Date Collected: 04/15/22
Time Collected: 9:18
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/20/22				
Total Solids	76.28		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/23/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	8.2	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-02 (0-4)
Sample No: 22-2550-001

Date Collected: 04/15/22
Time Collected: 9:18
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/23/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/09/22				
Preparation Date: 04/29/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-02 (0-4)
Sample No: 22-2550-001

Date Collected: 04/15/22
Time Collected: 9:18
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/09/22		Preparation Date: 04/29/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-02 (0-4)
Sample No: 22-2550-001

Date Collected: 04/15/22
Time Collected: 9:18
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/09/22		Preparation Date: 04/29/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/03/22		Preparation Date: 04/30/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	1.8	1.0	mg/kg	
Barium	30.1	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	152,000	50	mg/kg	
Chromium	8.7	0.5	mg/kg	
Cobalt	3.4	0.5	mg/kg	
Copper	11.7	0.5	mg/kg	
Iron	9,070	5.0	mg/kg	
Lead	4.2	0.5	mg/kg	
Magnesium	84,400	50	mg/kg	
Manganese	181	0.5	mg/kg	
Nickel	10.8	0.5	mg/kg	
Potassium	902	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	135	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	13.8	1.0	mg/kg	
Zinc	23.9	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-02 (0-4)
Sample No: 22-2550-001

Date Collected: 04/15/22
Time Collected: 9:18
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/18/22		Preparation Date: 05/12/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	2.8	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/16/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	99.3	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:	119.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	65	45	112
8270C	2-Fluorophenol (Surr)	%R:	64	41	84
8270C	d14-Terphenyl (Surr)	%R:	95	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	84	35	105
8270C	Phenol-d5 (surr)	%R:	81	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-02 (4-8)
Sample No: 22-2550-002

Date Collected: 04/15/22
Time Collected: 9:20
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/20/22				
Total Solids	87.64		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/23/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-02 (4-8)
Sample No: 22-2550-002

Date Collected: 04/15/22
Time Collected: 9:20
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/23/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/09/22				
Preparation Date: 04/29/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-02 (4-8)
Sample No: 22-2550-002

Date Collected: 04/15/22
Time Collected: 9:20
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/09/22		Preparation Date: 04/29/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-02 (4-8)
Sample No: 22-2550-002

Date Collected: 04/15/22
Time Collected: 9:20
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/09/22		Preparation Date: 04/29/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/03/22		Preparation Date: 04/30/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.7	1.0	mg/kg	
Barium	28.5	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	78,600	50	mg/kg	
Chromium	13.3	0.5	mg/kg	
Cobalt	7.6	0.5	mg/kg	
Copper	22.9	0.5	mg/kg	
Iron	17,900	5.0	mg/kg	
Lead	9.4	0.5	mg/kg	
Magnesium	40,800	50	mg/kg	
Manganese	413	0.5	mg/kg	
Nickel	20.4	0.5	mg/kg	
Potassium	1,710	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	133	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	19.1	1.0	mg/kg	
Zinc	50.6	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-02 (4-8)
Sample No: 22-2550-002

Date Collected: 04/15/22
Time Collected: 9:20
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/18/22		Preparation Date: 05/12/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.011	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.013	0.005	mg/L	
Iron	11.2	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/16/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98.1	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	100.1	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	105.7	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	108.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	63	45	112
8270C	2-Fluorophenol (Surr)	%R:	57.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	86	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	80	35	105
8270C	Phenol-d5 (surr)	%R:	70	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-06 (0-4)
Sample No: 22-2550-009

Date Collected: 04/15/22
Time Collected: 9:55
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/20/22				
Total Solids	71.78		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/23/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-06 (0-4)
Sample No: 22-2550-009

Date Collected: 04/15/22
Time Collected: 9:55
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/23/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/09/22				
Preparation Date: 04/29/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-06 (0-4)
Sample No: 22-2550-009

Date Collected: 04/15/22
Time Collected: 9:55
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/09/22		Preparation Date: 04/29/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-06 (0-4)
Sample No: 22-2550-009

Date Collected: 04/15/22
Time Collected: 9:55
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/09/22		Preparation Date: 04/29/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/05/22		Preparation Date: 05/04/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.5	1.0	mg/kg	
Barium	30.0	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	43,100	50	mg/kg	
Chromium	10.9	0.5	mg/kg	
Cobalt	4.5	0.5	mg/kg	
Copper	11.8	0.5	mg/kg	
Iron	13,500	5.0	mg/kg	
Lead	9.8	0.5	mg/kg	
Magnesium	21,000	50	mg/kg	
Manganese	224	0.5	mg/kg	
Nickel	10.8	0.5	mg/kg	
Potassium	777	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	77	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	18.8	1.0	mg/kg	
Zinc	33.2	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-06 (0-4)
Sample No: 22-2550-009

Date Collected: 04/15/22
Time Collected: 9:55
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/17/22		Preparation Date: 05/16/22		
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	0.031	0.005	mg/L	
Iron	28.5	0.1	mg/L	
Lead	0.009	0.005	mg/L	
Manganese	0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/16/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	97.4	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.2	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	102.3	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	115	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	66	45	112
8270C	2-Fluorophenol (Surr)	%R:	63	41	84
8270C	d14-Terphenyl (Surr)	%R:	93	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	87	35	105
8270C	Phenol-d5 (surr)	%R:	76	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-06 (4-8)
Sample No: 22-2550-010

Date Collected: 04/15/22
Time Collected: 9:57
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/20/22				
Total Solids	89.92		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/23/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	6.1	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-06 (4-8)
Sample No: 22-2550-010

Date Collected: 04/15/22
Time Collected: 9:57
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/23/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/09/22				
Preparation Date: 04/29/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-06 (4-8)
Sample No: 22-2550-010

Date Collected: 04/15/22
Time Collected: 9:57
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/09/22		Preparation Date: 04/29/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-06 (4-8)
Sample No: 22-2550-010

Date Collected: 04/15/22
Time Collected: 9:57
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/09/22		Preparation Date: 04/29/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/05/22		Preparation Date: 05/04/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	2.1	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	80,800	50	mg/kg	
Chromium	8.7	0.5	mg/kg	
Cobalt	3.8	0.5	mg/kg	
Copper	9.8	0.5	mg/kg	
Iron	10,700	5.0	mg/kg	
Lead	3.6	0.5	mg/kg	
Magnesium	37,000	50	mg/kg	
Manganese	249	0.5	mg/kg	
Nickel	9.7	0.5	mg/kg	
Potassium	908	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	116	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	13.2	1.0	mg/kg	
Zinc	24.2	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-06 (4-8)
Sample No: 22-2550-010

Date Collected: 04/15/22
Time Collected: 9:57
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 05/03/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 05/13/22 10:10				
pH @ 25°C, 1:2	8.83		Units	
TCLP Extraction Method: 1311				
Analysis Date: 05/10/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C Preparation Method 3010A				
Analysis Date: 05/18/22 Preparation Date: 05/12/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.5	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 05/12/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 05/09/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-06 (4-8)
Sample No: 22-2550-010

Date Collected: 04/15/22
Time Collected: 9:57
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/17/22		Preparation Date: 05/16/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.018	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.022	0.005	mg/L	
Iron	16.6	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/16/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	99.6	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	101.2	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	105.2	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	124.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	73	45	112
8270C	2-Fluorophenol (Surr)	%R:	66.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	95	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	85	35	105
8270C	Phenol-d5 (surr)	%R:	80.5	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-07 (0-4)
Sample No: 22-2550-011

Date Collected: 04/15/22
Time Collected: 10:00
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/20/22				
Total Solids	72.46		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/23/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-07 (0-4)
Sample No: 22-2550-011

Date Collected: 04/15/22
Time Collected: 10:00
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/23/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/09/22				
Preparation Date: 04/29/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-07 (0-4)
Sample No: 22-2550-011

Date Collected: 04/15/22
Time Collected: 10:00
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/09/22		Preparation Date: 04/29/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-07 (0-4)
Sample No: 22-2550-011

Date Collected: 04/15/22
Time Collected: 10:00
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/09/22		Preparation Date: 04/29/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/05/22		Preparation Date: 05/04/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	2.4	1.0	mg/kg	
Barium	88.5	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	7,200	50	mg/kg	
Chromium	18.1	0.5	mg/kg	
Cobalt	6.2	0.5	mg/kg	
Copper	20.6	0.5	mg/kg	
Iron	16,200	5.0	mg/kg	
Lead	20.5	0.5	mg/kg	
Magnesium	4,400	50	mg/kg	
Manganese	352	0.5	mg/kg	
Nickel	15.3	0.5	mg/kg	
Potassium	1,720	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	< 50	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	25.8	1.0	mg/kg	
Zinc	70.0	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-07 (0-4)
Sample No: 22-2550-011

Date Collected: 04/15/22
Time Collected: 10:00
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/17/22		Preparation Date: 05/16/22		
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	0.026	0.005	mg/L	
Iron	14.1	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/16/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	96.5	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.6	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	104	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	122	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	70	45	112
8270C	2-Fluorophenol (Surr)	%R:	62	41	84
8270C	d14-Terphenyl (Surr)	%R:	95	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	85	35	105
8270C	Phenol-d5 (surr)	%R:	76	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-07 (4-8)
Sample No: 22-2550-012

Date Collected: 04/15/22
Time Collected: 10:03
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/20/22				
Total Solids	85.92		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/23/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-07 (4-8)
Sample No: 22-2550-012

Date Collected: 04/15/22
Time Collected: 10:03
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/23/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/09/22				
Preparation Date: 04/29/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-07 (4-8)
Sample No: 22-2550-012

Date Collected: 04/15/22
Time Collected: 10:03
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/09/22		Preparation Date: 04/29/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-07 (4-8)
Sample No: 22-2550-012

Date Collected: 04/15/22
Time Collected: 10:03
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/09/22		Preparation Date: 04/29/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/05/22		Preparation Date: 05/04/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	1.1	1.0	mg/kg	
Barium	12.4	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	53,300	50	mg/kg	
Chromium	16.4	0.5	mg/kg	
Cobalt	4.0	0.5	mg/kg	
Copper	7.6	0.5	mg/kg	
Iron	10,200	5.0	mg/kg	
Lead	3.1	0.5	mg/kg	
Magnesium	30,800	50	mg/kg	
Manganese	166	0.5	mg/kg	
Nickel	11.6	0.5	mg/kg	
Potassium	319	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	153	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	20.5	1.0	mg/kg	
Zinc	17.4	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-07 (4-8)
Sample No: 22-2550-012

Date Collected: 04/15/22
Time Collected: 10:03
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/17/22		Preparation Date: 05/16/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	0.7	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/16/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	96.1	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.7	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	105.2	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	114.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	67	45	112
8270C	2-Fluorophenol (Surr)	%R:	66.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	90	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	85	35	105
8270C	Phenol-d5 (surr)	%R:	80	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-08 (0-4)
Sample No: 22-2550-013

Date Collected: 04/15/22
Time Collected: 10:13
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/20/22				
Total Solids	88.06		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/23/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-08 (0-4)
Sample No: 22-2550-013

Date Collected: 04/15/22
Time Collected: 10:13
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/23/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/09/22				
Preparation Date: 04/29/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-08 (0-4)
Sample No: 22-2550-013

Date Collected: 04/15/22
Time Collected: 10:13
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/09/22		Preparation Date: 04/29/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-08 (0-4)
Sample No: 22-2550-013

Date Collected: 04/15/22
Time Collected: 10:13
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/09/22		Preparation Date: 04/29/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/05/22		Preparation Date: 05/04/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.6	1.0	mg/kg	
Barium	26.1	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	78,400	50	mg/kg	
Chromium	10.1	0.5	mg/kg	
Cobalt	5.4	0.5	mg/kg	
Copper	11.0	0.5	mg/kg	
Iron	12,300	5.0	mg/kg	
Lead	5.5	0.5	mg/kg	
Magnesium	34,100	50	mg/kg	
Manganese	312	0.5	mg/kg	
Nickel	13.7	0.5	mg/kg	
Potassium	886	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	97	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	16.4	1.0	mg/kg	
Zinc	26.9	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.	Date Collected: 04/15/22
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood	Time Collected: 10:13
Sample ID: 47-08 (0-4)	Date Received: 04/15/22
Sample No: 22-2550-013	Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 05/03/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 05/13/22 10:10				
pH @ 25°C, 1:2	8.69		Units	
TCLP Extraction Method: 1311				
Analysis Date: 05/10/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 05/18/22				
		Preparation Method 3010A		
		Preparation Date: 05/12/22		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 05/12/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 05/10/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-08 (0-4)
Sample No: 22-2550-013

Date Collected: 04/15/22
Time Collected: 10:13
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/17/22		Preparation Date: 05/16/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	2.4	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/16/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	100.7	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	100.2	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	104.9	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	136.5	*	59 - 131
8270C	2-Fluorobiphenyl (Surr)	%R:	83		45 - 112
8270C	2-Fluorophenol (Surr)	%R:	82.5		41 - 84
8270C	d14-Terphenyl (Surr)	%R:	110		56 - 120
8270C	d5-Nitrobenzene (Surr)	%R:	108	*	35 - 105
8270C	Phenol-d5 (surr)	%R:	100.5	*	50 - 100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-08 (4-8)
Sample No: 22-2550-014

Date Collected: 04/15/22
Time Collected: 10:15
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/20/22				
Total Solids	85.46		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/23/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-08 (4-8)
Sample No: 22-2550-014

Date Collected: 04/15/22
Time Collected: 10:15
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/23/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/09/22				
Preparation Date: 04/29/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-08 (4-8)
Sample No: 22-2550-014

Date Collected: 04/15/22
Time Collected: 10:15
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/09/22		Preparation Date: 04/29/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-08 (4-8)
Sample No: 22-2550-014

Date Collected: 04/15/22
Time Collected: 10:15
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/09/22		Preparation Date: 04/29/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/05/22		Preparation Date: 05/04/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	1.1	1.0	mg/kg	
Barium	44.9	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	86,000	50	mg/kg	
Chromium	15.0	0.5	mg/kg	
Cobalt	4.8	0.5	mg/kg	
Copper	14.0	0.5	mg/kg	
Iron	14,300	5.0	mg/kg	
Lead	6.8	0.5	mg/kg	
Magnesium	34,600	50	mg/kg	
Manganese	227	0.5	mg/kg	
Nickel	13.6	0.5	mg/kg	
Potassium	1,770	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	129	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	18.1	1.0	mg/kg	
Zinc	40.4	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-08 (4-8)
Sample No: 22-2550-014

Date Collected: 04/15/22
Time Collected: 10:15
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/17/22		Preparation Date: 05/16/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	4.2	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/16/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary: Surrogate Recovery				%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	97	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.8	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	103.7	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	123.5	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	72	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	66.5	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	96	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	88	35 -	105
8270C	Phenol-d5 (surr)	%R:	80	50 -	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-11 (0-4)
Sample No: 22-2550-019

Date Collected: 04/15/22
Time Collected: 10:38
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/20/22				
Total Solids	79.60		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/23/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	5.5	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-11 (0-4)
Sample No: 22-2550-019

Date Collected: 04/15/22
Time Collected: 10:38
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/23/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/10/22				
Preparation Date: 04/29/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-11 (0-4)
Sample No: 22-2550-019

Date Collected: 04/15/22
Time Collected: 10:38
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/10/22		Preparation Date: 04/29/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-11 (0-4)
Sample No: 22-2550-019

Date Collected: 04/15/22
Time Collected: 10:38
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/10/22		Preparation Date: 04/29/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/05/22		Preparation Date: 05/04/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	2.0	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	1,030	50	mg/kg	
Chromium	7.8	0.5	mg/kg	
Cobalt	3.8	0.5	mg/kg	
Copper	6.2	0.5	mg/kg	
Iron	9,050	5.0	mg/kg	
Lead	6.0	0.5	mg/kg	
Magnesium	1,180	50	mg/kg	
Manganese	162	0.5	mg/kg	
Nickel	7.4	0.5	mg/kg	
Potassium	461	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	< 50	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	13.7	1.0	mg/kg	
Zinc	21.8	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-11 (0-4)
Sample No: 22-2550-019

Date Collected: 04/15/22
Time Collected: 10:38
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 05/03/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 05/16/22 13:00				
pH @ 25°C, 1:2	8.15		Units	
TCLP Extraction Method: 1311				
Analysis Date: 05/10/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 05/18/22				
Preparation Method 3010A				
Preparation Date: 05/12/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 05/12/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 05/10/22				
SPLP Metals Extraction	Complete			
Arsenic	0.075	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-11 (0-4)
Sample No: 22-2550-019

Date Collected: 04/15/22
Time Collected: 10:38
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/19/22		Preparation Date: 05/17/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	0.006	0.005	mg/L	
Chromium	0.128	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.087	0.005	mg/L	
Iron	126	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	
Zinc	0.2	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/16/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98.4	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.3	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	105.5	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	117.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	66	45	112
8270C	2-Fluorophenol (Surr)	%R:	63.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	89	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	87	35	105
8270C	Phenol-d5 (surr)	%R:	75	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-11 (4-8)
Sample No: 22-2550-020

Date Collected: 04/15/22
Time Collected: 10:40
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/20/22				
Total Solids	83.88		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/23/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-11 (4-8)
Sample No: 22-2550-020

Date Collected: 04/15/22
Time Collected: 10:40
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/23/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/10/22				
Preparation Date: 04/29/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-11 (4-8)
Sample No: 22-2550-020

Date Collected: 04/15/22
Time Collected: 10:40
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/10/22		Preparation Date: 04/29/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-11 (4-8)
Sample No: 22-2550-020

Date Collected: 04/15/22
Time Collected: 10:40
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/10/22		Preparation Date: 04/29/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/05/22		Preparation Date: 05/04/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	2.1	1.0	mg/kg	
Barium	14.4	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	884	50	mg/kg	
Chromium	6.4	0.5	mg/kg	
Cobalt	2.9	0.5	mg/kg	
Copper	6.4	0.5	mg/kg	
Iron	9,410	5.0	mg/kg	
Lead	2.9	0.5	mg/kg	
Magnesium	1,170	50	mg/kg	
Manganese	51.6	0.5	mg/kg	
Nickel	8.2	0.5	mg/kg	
Potassium	372	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	< 50	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	17.2	1.0	mg/kg	
Zinc	15.9	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-11 (4-8)
Sample No: 22-2550-020

Date Collected: 04/15/22
Time Collected: 10:40
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 05/04/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 05/16/22 13:00				
pH @ 25°C, 1:2	8.01		Units	
TCLP Extraction Method: 1311				
Analysis Date: 05/10/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 05/18/22				
Preparation Method 3010A				
Preparation Date: 05/12/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 05/12/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 05/10/22				
SPLP Metals Extraction	Complete			
Arsenic	0.033	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: 47-11 (4-8)
Sample No: 22-2550-020

Date Collected: 04/15/22
Time Collected: 10:40
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/19/22		Preparation Date: 05/17/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.053	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.048	0.005	mg/L	
Iron	54.6	0.1	mg/L	
Lead	0.014	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/16/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	97.1	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.8	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	105.8	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	130.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	80	45	112
8270C	2-Fluorophenol (Surr)	%R:	74.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	101	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	96	35	105
8270C	Phenol-d5 (surr)	%R:	86	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/11/22

Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05

Time Collected: 10:20

Sample ID: 3919-COV-48-01 (0-5)

Date Received: 04/12/22

Sample No: 22-2423-020

Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/18/22				
Total Solids	77.88		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/19/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/11/22

Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05

Time Collected: 10:20

Sample ID: 3919-COV-48-01 (0-5)

Date Received: 04/12/22

Sample No: 22-2423-020

Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/19/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/26/22				
Preparation Date: 04/24/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-48-01 (0-5)
Sample No: 22-2423-020

Date Collected: 04/11/22
Time Collected: 10:20
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/26/22		Preparation Date: 04/24/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-48-01 (0-5)
Sample No: 22-2423-020

Date Collected: 04/11/22
Time Collected: 10:20
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/26/22		Preparation Date: 04/24/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/29/22		Preparation Date: 04/22/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.2	1.0	mg/kg	
Barium	125	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	7,710	50	mg/kg	
Chromium	18.0	0.5	mg/kg	
Cobalt	7.6	0.5	mg/kg	
Copper	19.6	0.5	mg/kg	
Iron	19,800	5.0	mg/kg	
Lead	22.6	0.5	mg/kg	
Magnesium	5,160	50	mg/kg	
Manganese	630	0.5	mg/kg	
Nickel	16.0	0.5	mg/kg	
Potassium	2,290	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	583	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	33.9	1.0	mg/kg	
Zinc	54.6	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-48-01 (0-5)
Sample No: 22-2423-020

Date Collected: 04/11/22
Time Collected: 10:20
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/06/22		Preparation Date: 05/05/22		
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	0.015	0.005	mg/L	
Iron	14.7	0.1	mg/L	
Lead	0.006	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/05/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	95.3	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.3	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	102.3	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	106.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	63	45	112
8270C	2-Fluorophenol (Surr)	%R:	47	41	84
8270C	d14-Terphenyl (Surr)	%R:	96	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	72	35	105
8270C	Phenol-d5 (surr)	%R:	65	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/11/22

Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05

Time Collected: 10:21

Sample ID: 3919-COV-48-01 (5-10)

Date Received: 04/12/22

Sample No: 22-2423-021

Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/18/22				
Total Solids	86.46		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/20/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-48-01 (5-10)
Sample No: 22-2423-021

Date Collected: 04/11/22
Time Collected: 10:21
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/20/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/26/22				
Preparation Date: 04/24/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



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Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/26/22		Preparation Date: 04/24/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



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Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/26/22		Preparation Date: 04/24/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals	Method: 6010C	Preparation Method 3050B		
Analysis Date: 04/29/22		Preparation Date: 04/22/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	2.0	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	79,500	50	mg/kg	
Chromium	12.7	0.5	mg/kg	
Cobalt	9.1	0.5	mg/kg	
Copper	13.5	0.5	mg/kg	
Iron	12,500	5.0	mg/kg	
Lead	6.6	0.5	mg/kg	
Magnesium	39,100	50	mg/kg	
Manganese	503	0.5	mg/kg	
Nickel	17.9	0.5	mg/kg	
Potassium	1,600	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	257	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	18.2	1.0	mg/kg	
Zinc	27.2	1.0	mg/kg	



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Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/09/22		Preparation Date: 05/05/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.008	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.008	0.005	mg/L	
Iron	6.0	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	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/06/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary: Surrogate Recovery				%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98.3	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.5	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	102.1	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	119.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	69	45	112
8270C	2-Fluorophenol (Surr)	%R:	64.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	97	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	80	35	105
8270C	Phenol-d5 (surr)	%R:	79	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/11/22

Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05

Time Collected: 10:50

Sample ID: 3919-COV-48-04 (0-5)

Date Received: 04/12/22

Sample No: 22-2423-026

Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/18/22				
Total Solids	78.10		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/20/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



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Time Collected: 10:50

Sample ID: 3919-COV-48-04 (0-5)

Date Received: 04/12/22

Sample No: 22-2423-026

Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/20/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/26/22				
Preparation Date: 04/24/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

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Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-48-04 (0-5)
Sample No: 22-2423-026

Date Collected: 04/11/22
Time Collected: 10:50
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/26/22		Preparation Date: 04/24/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



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Sample No: 22-2423-026

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Time Collected: 10:50
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/26/22		Preparation Date: 04/24/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/02/22		Preparation Date: 04/26/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.5	1.0	mg/kg	
Barium	142	0.5	mg/kg	
Beryllium	1.1	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	5,180	50	mg/kg	
Chromium	26.3	0.5	mg/kg	
Cobalt	12.9	0.5	mg/kg	
Copper	25.7	0.5	mg/kg	
Iron	23,600	5.0	mg/kg	
Lead	22.2	0.5	mg/kg	
Magnesium	5,480	50	mg/kg	
Manganese	604	0.5	mg/kg	
Nickel	32.0	0.5	mg/kg	
Potassium	1,150	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	1,390	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	40.1	1.0	mg/kg	
Zinc	68.7	1.0	mg/kg	



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Sample ID: 3919-COV-48-04 (0-5)
Sample No: 22-2423-026

Date Collected: 04/11/22
Time Collected: 10:50
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/09/22		Preparation Date: 05/05/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.118	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.074	0.005	mg/L	
Iron	79.7	0.1	mg/L	
Lead	0.029	0.005	mg/L	
Manganese	0.3	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.2	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/06/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98.1	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.9	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	101.7	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	110	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	65	45	112
8270C	2-Fluorophenol (Surr)	%R:	54	41	84
8270C	d14-Terphenyl (Surr)	%R:	92	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	73	35	105
8270C	Phenol-d5 (surr)	%R:	70.5	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/11/22

Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05

Time Collected: 10:51

Sample ID: 3919-COV-48-04 (5-10)

Date Received: 04/12/22

Sample No: 22-2423-027

Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/18/22				
Total Solids	87.48		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/20/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/11/22

Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05

Time Collected: 10:51

Sample ID: 3919-COV-48-04 (5-10)

Date Received: 04/12/22

Sample No: 22-2423-027

Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/20/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/27/22				
Preparation Date: 04/24/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-48-04 (5-10)
Sample No: 22-2423-027

Date Collected: 04/11/22
Time Collected: 10:51
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/27/22		Preparation Date: 04/24/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-48-04 (5-10)
Sample No: 22-2423-027

Date Collected: 04/11/22
Time Collected: 10:51
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/27/22		Preparation Date: 04/24/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/02/22		Preparation Date: 04/26/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.8	1.0	mg/kg	
Barium	34.8	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	98,300	50	mg/kg	
Chromium	14.3	0.5	mg/kg	
Cobalt	6.3	0.5	mg/kg	
Copper	16.8	0.5	mg/kg	
Iron	14,000	5.0	mg/kg	
Lead	5.8	0.5	mg/kg	
Magnesium	48,700	50	mg/kg	
Manganese	333	0.5	mg/kg	
Nickel	17.9	0.5	mg/kg	
Potassium	1,770	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	531	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	20.4	1.0	mg/kg	
Zinc	38.4	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-48-04 (5-10)
Sample No: 22-2423-027

Date Collected: 04/11/22
Time Collected: 10:51
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/09/22		Preparation Date: 05/05/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.011	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.010	0.005	mg/L	
Iron	8.3	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/06/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary: Surrogate Recovery				%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98.8	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.4	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	104.1	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	87	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	72	45	112
8270C	2-Fluorophenol (Surr)	%R:	67.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	94	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	73	35	105
8270C	Phenol-d5 (surr)	%R:	75	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/07/22

Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47

Time Collected: 10:25

Sample ID: 3919-COV-48-06 (0-5)

Date Received: 04/08/22

Sample No: 22-2330-029

Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	86.1		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/14/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-48-06 (0-5)
Sample No: 22-2330-029

Date Collected: 04/07/22
Time Collected: 10:25
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/14/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/19/22				
Preparation Date: 04/17/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-48-06 (0-5)
Sample No: 22-2330-029

Date Collected: 04/07/22
Time Collected: 10:25
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/19/22		Preparation Date: 04/17/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-48-06 (0-5)
Sample No: 22-2330-029

Date Collected: 04/07/22
Time Collected: 10:25
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/19/22		Preparation Date: 04/17/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/20/22		Preparation Date: 04/13/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.9	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	90,300	50	mg/kg	
Chromium	14.7	0.5	mg/kg	
Cobalt	11.6	0.5	mg/kg	
Copper	18.4	0.5	mg/kg	
Iron	17,900	5.0	mg/kg	
Lead	8.6	0.5	mg/kg	
Magnesium	46,400	50	mg/kg	
Manganese	399	0.5	mg/kg	
Nickel	21.0	0.5	mg/kg	
Potassium	2,360	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	813	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	20.3	1.0	mg/kg	
Zinc	36.4	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-48-06 (0-5)
Sample No: 22-2330-029

Date Collected: 04/07/22
Time Collected: 10:25
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/21/22		Preparation Date: 04/19/22		
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	0.016	0.005	mg/L	
Iron	17.2	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/20/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98.8	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.3	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	107.1	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	108.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	64	45	112
8270C	2-Fluorophenol (Surr)	%R:	59.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	82	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	75	35	105
8270C	Phenol-d5 (surr)	%R:	76.5	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/07/22

Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47

Time Collected: 10:26

Sample ID: 3919-COV-48-06 (5-10)

Date Received: 04/08/22

Sample No: 22-2330-030

Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	88.16		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/14/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-48-06 (5-10)
Sample No: 22-2330-030

Date Collected: 04/07/22
Time Collected: 10:26
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/14/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/19/22				
Preparation Date: 04/17/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-48-06 (5-10)
Sample No: 22-2330-030

Date Collected: 04/07/22
Time Collected: 10:26
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/19/22		Preparation Date: 04/17/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-48-06 (5-10)
Sample No: 22-2330-030

Date Collected: 04/07/22
Time Collected: 10:26
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/19/22		Preparation Date: 04/17/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/20/22		Preparation Date: 04/13/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.8	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	85,400	50	mg/kg	
Chromium	14.0	0.5	mg/kg	
Cobalt	5.0	0.5	mg/kg	
Copper	20.9	0.5	mg/kg	
Iron	17,800	5.0	mg/kg	
Lead	9.8	0.5	mg/kg	
Magnesium	46,100	50	mg/kg	
Manganese	346	0.5	mg/kg	
Nickel	19.3	0.5	mg/kg	
Potassium	2,230	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	317	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	16.9	1.0	mg/kg	
Zinc	40.8	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-48-06 (5-10)
Sample No: 22-2330-030

Date Collected: 04/07/22
Time Collected: 10:26
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/20/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/28/22 10:00				
pH @ 25°C, 1:2	8.31		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/13/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/19/22				
Preparation Method 3010A Preparation Date: 04/18/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.0	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 04/21/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/13/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-48-06 (5-10)
Sample No: 22-2330-030

Date Collected: 04/07/22
Time Collected: 10:26
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/21/22		Preparation Date: 04/19/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	0.3	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/20/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	95.8	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.4	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	106	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	116	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	71	45	112
8270C	2-Fluorophenol (Surr)	%R:	69.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	84	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	85	35	105
8270C	Phenol-d5 (surr)	%R:	83	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/11/22

Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05

Time Collected: 13:10

Sample ID: 3919-COV-49-09 (0-5)

Date Received: 04/12/22

Sample No: 22-2423-038

Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/18/22				
Total Solids	82.66		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/20/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/11/22

Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05

Time Collected: 13:10

Sample ID: 3919-COV-49-09 (0-5)

Date Received: 04/12/22

Sample No: 22-2423-038

Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/20/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/26/22				
Preparation Date: 04/24/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-49-09 (0-5)
Sample No: 22-2423-038

Date Collected: 04/11/22
Time Collected: 13:10
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/26/22		Preparation Date: 04/24/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/11/22

Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05

Time Collected: 13:10

Sample ID: 3919-COV-49-09 (0-5)

Date Received: 04/12/22

Sample No: 22-2423-038

Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/26/22		Preparation Date: 04/24/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals	Method: 6010C	Preparation Method 3050B		
Analysis Date: 05/02/22		Preparation Date: 04/26/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.6	1.0	mg/kg	
Barium	66.7	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	2,680	50	mg/kg	
Chromium	19.7	0.5	mg/kg	
Cobalt	12.9	0.5	mg/kg	
Copper	20.4	0.5	mg/kg	
Iron	18,200	5.0	mg/kg	
Lead	18.3	0.5	mg/kg	
Magnesium	3,630	50	mg/kg	
Manganese	109	0.5	mg/kg	
Nickel	24.9	0.5	mg/kg	
Potassium	1,660	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	1,650	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	30.1	1.0	mg/kg	
Zinc	59.1	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-49-09 (0-5)
Sample No: 22-2423-038

Date Collected: 04/11/22
Time Collected: 13:10
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/09/22		Preparation Date: 05/05/22		
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	0.014	0.005	mg/L	
Iron	10.0	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/06/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	97.6	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.7	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	104	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	85.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	64	45	112
8270C	2-Fluorophenol (Surr)	%R:	58.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	93	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	61	35	105
8270C	Phenol-d5 (surr)	%R:	65.5	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/11/22

Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05

Time Collected: 13:11

Sample ID: 3919-COV-49-09 (5-10)

Date Received: 04/12/22

Sample No: 22-2423-039

Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/18/22				
Total Solids	85.67		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/20/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-49-09 (5-10)
Sample No: 22-2423-039

Date Collected: 04/11/22
Time Collected: 13:11
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/20/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/26/22				
Preparation Date: 04/24/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-49-09 (5-10)
Sample No: 22-2423-039

Date Collected: 04/11/22
Time Collected: 13:11
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/26/22		Preparation Date: 04/24/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-49-09 (5-10)
Sample No: 22-2423-039

Date Collected: 04/11/22
Time Collected: 13:11
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/26/22		Preparation Date: 04/24/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/02/22		Preparation Date: 04/26/22		
Antimony	1.1	1.0	mg/kg	
Arsenic	3.9	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	62,700	50	mg/kg	
Chromium	15.2	0.5	mg/kg	
Cobalt	9.6	0.5	mg/kg	
Copper	18.9	0.5	mg/kg	
Iron	16,200	5.0	mg/kg	
Lead	10.6	0.5	mg/kg	
Magnesium	36,400	50	mg/kg	
Manganese	293	0.5	mg/kg	
Nickel	22.0	0.5	mg/kg	
Potassium	974	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	921	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	25.8	1.0	mg/kg	
Zinc	39.4	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: 3919-COV-49-09 (5-10)
Sample No: 22-2423-039

Date Collected: 04/11/22
Time Collected: 13:11
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/09/22		Preparation Date: 05/05/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.005	0.005	mg/L	
Iron	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/06/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	97.4	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.4	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	104.5	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	84.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	66	45	112
8270C	2-Fluorophenol (Surr)	%R:	65.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	94	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	62	35	105
8270C	Phenol-d5 (surr)	%R:	73	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/12/22

Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5

Time Collected: 9:50

Sample ID: 3919-COV-50-02 (0-5)

Date Received: 04/13/22

Sample No: 22-2456-009

Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/18/22				
Total Solids	86.34		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-50-02 (0-5)
Sample No: 22-2456-009

Date Collected: 04/12/22
Time Collected: 9:50
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/27/22				
Preparation Date: 04/25/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-50-02 (0-5)
Sample No: 22-2456-009

Date Collected: 04/12/22
Time Collected: 9:50
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/27/22		Preparation Date: 04/25/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-50-02 (0-5)
Sample No: 22-2456-009

Date Collected: 04/12/22
Time Collected: 9:50
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/27/22		Preparation Date: 04/25/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals	Method: 6010C	Preparation Method 3050B		
Analysis Date: 05/02/22		Preparation Date: 04/29/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.6	1.0	mg/kg	
Barium	30.3	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	120,000	50	mg/kg	
Chromium	13.6	0.5	mg/kg	
Cobalt	7.5	0.5	mg/kg	
Copper	16.7	0.5	mg/kg	
Iron	15,500	5.0	mg/kg	
Lead	8.5	0.5	mg/kg	
Magnesium	61,700	50	mg/kg	
Manganese	834	0.5	mg/kg	
Nickel	20.7	0.5	mg/kg	
Potassium	1,870	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	814	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	18.4	1.0	mg/kg	
Zinc	34.6	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-50-02 (0-5)
Sample No: 22-2456-009

Date Collected: 04/12/22
Time Collected: 9:50
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/29/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/29/22 10:30				
pH @ 25°C, 1:2	8.47		Units	
TCLP Extraction Method: 1311				
Analysis Date: 05/03/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 05/12/22				
Preparation Method 3010A				
Preparation Date: 05/11/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	3.0	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: 05/09/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 05/03/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-50-02 (0-5)
Sample No: 22-2456-009

Date Collected: 04/12/22
Time Collected: 9:50
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/11/22		Preparation Date: 05/10/22		
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	0.006	0.005	mg/L	
Iron	5.3	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/10/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	96.1	86 - 117	
5035A/8260B	d8-Toluene (Surr)	%R:	98	90 - 110	
5035A/8260B	Dibromofluoromethane (Surr)	%R:	106.7	77 - 120	
8270C	2,4,6-Tribromophenol (Surr)	%R:	109.5	59 - 131	
8270C	2-Fluorobiphenyl (Surr)	%R:	67	45 - 112	
8270C	2-Fluorophenol (Surr)	%R:	58.5	41 - 84	
8270C	d14-Terphenyl (Surr)	%R:	87	56 - 120	
8270C	d5-Nitrobenzene (Surr)	%R:	74	35 - 105	
8270C	Phenol-d5 (surr)	%R:	72.5	50 - 100	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/12/22

Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5

Time Collected: 9:55

Sample ID: 3919-COV-50-02 ((5-10))

Date Received: 04/13/22

Sample No: 22-2456-010

Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/18/22				
Total Solids	85.89		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-50-02 ((5-10))
Sample No: 22-2456-010

Date Collected: 04/12/22
Time Collected: 9:55
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/27/22				
Preparation Date: 04/25/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-50-02 ((5-10))
Sample No: 22-2456-010

Date Collected: 04/12/22
Time Collected: 9:55
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/27/22		Preparation Date: 04/25/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-50-02 ((5-10))
Sample No: 22-2456-010

Date Collected: 04/12/22
Time Collected: 9:55
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/27/22		Preparation Date: 04/25/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals	Method: 6010C	Preparation Method 3050B		
Analysis Date: 05/02/22		Preparation Date: 04/29/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.4	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	74,100	50	mg/kg	
Chromium	14.8	0.5	mg/kg	
Cobalt	6.5	0.5	mg/kg	
Copper	21.1	0.5	mg/kg	
Iron	17,000	5.0	mg/kg	
Lead	10.9	0.5	mg/kg	
Magnesium	37,900	50	mg/kg	
Manganese	323	0.5	mg/kg	
Nickel	19.9	0.5	mg/kg	
Potassium	1,910	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	600	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	18.9	1.0	mg/kg	
Zinc	45.1	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-50-02 ((5-10))
Sample No: 22-2456-010

Date Collected: 04/12/22
Time Collected: 9:55
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/29/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/29/22 10:30				
pH @ 25°C, 1:2	8.98		Units	
TCLP Extraction Method: 1311				
Analysis Date: 05/03/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 05/12/22				
Preparation Method 3010A				
Preparation Date: 05/11/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.7	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 05/09/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 05/03/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-50-02 ((5-10))
Sample No: 22-2456-010

Date Collected: 04/12/22
Time Collected: 9:55
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/11/22		Preparation Date: 05/10/22		
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	18.0	0.1	mg/L	
Lead	0.006	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/10/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	82.5	*	86 - 117
5035A/8260B	d8-Toluene (Surr)	%R:	95.5		90 - 110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	106.8		77 - 120
8270C	2,4,6-Tribromophenol (Surr)	%R:	114		59 - 131
8270C	2-Fluorobiphenyl (Surr)	%R:	73		45 - 112
8270C	2-Fluorophenol (Surr)	%R:	61.5		41 - 84
8270C	d14-Terphenyl (Surr)	%R:	92		56 - 120
8270C	d5-Nitrobenzene (Surr)	%R:	78		35 - 105
8270C	Phenol-d5 (surr)	%R:	76		50 - 100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-50-03 (0-5)
Sample No: 22-2456-011

Date Collected: 04/12/22
Time Collected: 9:40
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/18/22				
Total Solids	86.70		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-50-03 (0-5)
Sample No: 22-2456-011

Date Collected: 04/12/22
Time Collected: 9:40
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/27/22				
Preparation Date: 04/25/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-50-03 (0-5)
Sample No: 22-2456-011

Date Collected: 04/12/22
Time Collected: 9:40
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/27/22		Preparation Date: 04/25/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-50-03 (0-5)
Sample No: 22-2456-011

Date Collected: 04/12/22
Time Collected: 9:40
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/27/22		Preparation Date: 04/25/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals	Method: 6010C	Preparation Method 3050B		
Analysis Date: 05/02/22		Preparation Date: 04/29/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.8	1.0	mg/kg	
Barium	30.8	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	92,400	50	mg/kg	
Chromium	13.4	0.5	mg/kg	
Cobalt	9.2	0.5	mg/kg	
Copper	17.3	0.5	mg/kg	
Iron	14,900	5.0	mg/kg	
Lead	8.6	0.5	mg/kg	
Magnesium	49,200	50	mg/kg	
Manganese	424	0.5	mg/kg	
Nickel	24.9	0.5	mg/kg	
Potassium	1,900	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	868	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	18.5	1.0	mg/kg	
Zinc	35.3	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-50-03 (0-5)
Sample No: 22-2456-011

Date Collected: 04/12/22
Time Collected: 9:40
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/11/22		Preparation Date: 05/10/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.029	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.033	0.005	mg/L	
Iron	28.8	0.1	mg/L	
Lead	0.010	0.005	mg/L	
Manganese	0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/10/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	96.8	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.5	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	105	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	113.5	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	66	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	53.5	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	88	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	71	35 -	105
8270C	Phenol-d5 (surr)	%R:	68.5	50 -	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-50-03 (5-10)
Sample No: 22-2456-012

Date Collected: 04/12/22
Time Collected: 9:45
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/18/22				
Total Solids	85.70		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-50-03 (5-10)
Sample No: 22-2456-012

Date Collected: 04/12/22
Time Collected: 9:45
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/27/22				
Preparation Date: 04/25/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-50-03 (5-10)
Sample No: 22-2456-012

Date Collected: 04/12/22
Time Collected: 9:45
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/27/22		Preparation Date: 04/25/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-50-03 (5-10)
Sample No: 22-2456-012

Date Collected: 04/12/22
Time Collected: 9:45
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/27/22		Preparation Date: 04/25/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals	Method: 6010C	Preparation Method 3050B		
Analysis Date: 05/02/22		Preparation Date: 04/29/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	8.2	1.0	mg/kg	
Barium	21.7	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	65,800	50	mg/kg	
Chromium	13.7	0.5	mg/kg	
Cobalt	8.7	0.5	mg/kg	
Copper	25.7	0.5	mg/kg	
Iron	19,700	5.0	mg/kg	
Lead	13.6	0.5	mg/kg	
Magnesium	33,300	50	mg/kg	
Manganese	313	0.5	mg/kg	
Nickel	21.3	0.5	mg/kg	
Potassium	1,810	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	826	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	18.1	1.0	mg/kg	
Zinc	56.2	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-50-03 (5-10)
Sample No: 22-2456-012

Date Collected: 04/12/22
Time Collected: 9:45
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 05/02/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/29/22 10:30				
pH @ 25°C, 1:2	8.40		Units	
TCLP Extraction Method: 1311				
Analysis Date: 05/03/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 05/12/22				
Preparation Method 3010A Preparation Date: 05/11/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.7	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 05/09/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 05/03/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-50-03 (5-10)
Sample No: 22-2456-012

Date Collected: 04/12/22
Time Collected: 9:45
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/12/22		Preparation Date: 05/11/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.028	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.036	0.005	mg/L	
Iron	30.5	0.1	mg/L	
Lead	0.013	0.005	mg/L	
Manganese	0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/10/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	93	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.6	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	106.9	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	78.5	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	70	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	57	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	91	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	66	35 -	105
8270C	Phenol-d5 (surr)	%R:	68.5	50 -	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/07/22

Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47

Time Collected: 11:55

Sample ID: 3919-COV-51-03 (0-4)

Date Received: 04/08/22

Sample No: 22-2330-034

Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	84.23		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/14/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-51-03 (0-4)
Sample No: 22-2330-034

Date Collected: 04/07/22
Time Collected: 11:55
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/14/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/19/22				
Preparation Date: 04/17/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-51-03 (0-4)
Sample No: 22-2330-034

Date Collected: 04/07/22
Time Collected: 11:55
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/19/22		Preparation Date: 04/17/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-51-03 (0-4)
Sample No: 22-2330-034

Date Collected: 04/07/22
Time Collected: 11:55
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/19/22		Preparation Date: 04/17/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/20/22		Preparation Date: 04/13/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.7	1.0	mg/kg	
Barium	41.5	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	44,100	50	mg/kg	
Chromium	15.3	0.5	mg/kg	
Cobalt	8.8	0.5	mg/kg	
Copper	17.1	0.5	mg/kg	
Iron	17,800	5.0	mg/kg	
Lead	10.4	0.5	mg/kg	
Magnesium	19,100	50	mg/kg	
Manganese	394	0.5	mg/kg	
Nickel	17.2	0.5	mg/kg	
Potassium	1,400	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	96	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	25.6	1.0	mg/kg	
Zinc	33.9	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-51-03 (0-4)
Sample No: 22-2330-034

Date Collected: 04/07/22
Time Collected: 11:55
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Analysis Date: 04/21/22 Mercury	Method: 7471B < 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Analysis Date: 04/28/22 10:00 pH @ 25°C, 1:2	Method: 9045D 8.95		Units	
TCLP Extraction Analysis Date: 04/13/22 TCLP Extraction	Method: 1311 Complete			
TCLP Metals Method 1311 Analysis Date: 04/19/22	Method: 6010C	Preparation Method 3010A Preparation Date: 04/18/22		
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.5	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 Analysis Date: 04/21/22 Mercury	Method: 7470A < 0.0005	0.0005	mg/L	
SPLP Extraction Analysis Date: 04/13/22 SPLP Metals Extraction	Method: 1312 Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-51-03 (0-4)
Sample No: 22-2330-034

Date Collected: 04/07/22
Time Collected: 11:55
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/21/22		Preparation Date: 04/19/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.011	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.008	0.005	mg/L	
Iron	9.2	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/20/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98.4	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.8	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	107	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	112	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	78	45	112
8270C	2-Fluorophenol (Surr)	%R:	66	41	84
8270C	d14-Terphenyl (Surr)	%R:	92	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	90	35	105
8270C	Phenol-d5 (surr)	%R:	82.5	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/07/22

Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47

Time Collected: 11:00

Sample ID: 3919-COV-51-04 (0-5)

Date Received: 04/08/22

Sample No: 22-2330-035

Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	98.78		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/14/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/07/22

Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47

Time Collected: 11:00

Sample ID: 3919-COV-51-04 (0-5)

Date Received: 04/08/22

Sample No: 22-2330-035

Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/14/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/19/22				
Preparation Date: 04/17/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-51-04 (0-5)
Sample No: 22-2330-035

Date Collected: 04/07/22
Time Collected: 11:00
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/19/22		Preparation Date: 04/17/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-51-04 (0-5)
Sample No: 22-2330-035

Date Collected: 04/07/22
Time Collected: 11:00
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/19/22		Preparation Date: 04/17/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/20/22		Preparation Date: 04/13/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	1.3	1.0	mg/kg	
Barium	44.6	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	75,700	50	mg/kg	
Chromium	15.4	0.5	mg/kg	
Cobalt	4.4	0.5	mg/kg	
Copper	12.6	0.5	mg/kg	
Iron	13,300	5.0	mg/kg	
Lead	7.2	0.5	mg/kg	
Magnesium	28,300	50	mg/kg	
Manganese	245	0.5	mg/kg	
Nickel	15.7	0.5	mg/kg	
Potassium	1,870	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	264	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	16.8	1.0	mg/kg	
Zinc	28.2	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-51-04 (0-5)
Sample No: 22-2330-035

Date Collected: 04/07/22
Time Collected: 11:00
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/21/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/28/22 10:00				
pH @ 25°C, 1:2	8.32		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/13/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/19/22				
Preparation Method 3010A				
Preparation Date: 04/18/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	2.6	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 04/21/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/13/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-51-04 (0-5)
Sample No: 22-2330-035

Date Collected: 04/07/22
Time Collected: 11:00
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/21/22		Preparation Date: 04/19/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.014	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.010	0.005	mg/L	
Iron	10.9	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	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/20/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	97.9	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.1	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	107.4	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	116.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	74	45	112
8270C	2-Fluorophenol (Surr)	%R:	63	41	84
8270C	d14-Terphenyl (Surr)	%R:	94	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	84	35	105
8270C	Phenol-d5 (surr)	%R:	78.5	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/07/22

Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47

Time Collected: 11:01

Sample ID: 3919-COV-51-04 (5-10)

Date Received: 04/08/22

Sample No: 22-2330-036

Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	73.68		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/14/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-51-04 (5-10)
Sample No: 22-2330-036

Date Collected: 04/07/22
Time Collected: 11:01
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/14/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/19/22				
Preparation Date: 04/17/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-51-04 (5-10)
Sample No: 22-2330-036

Date Collected: 04/07/22
Time Collected: 11:01
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/19/22		Preparation Date: 04/17/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/07/22

Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47

Time Collected: 11:01

Sample ID: 3919-COV-51-04 (5-10)

Date Received: 04/08/22

Sample No: 22-2330-036

Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/19/22		Preparation Date: 04/17/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/20/22		Preparation Date: 04/13/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.8	1.0	mg/kg	
Barium	19.2	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	149,000	50	mg/kg	
Chromium	11.4	0.5	mg/kg	
Cobalt	5.3	0.5	mg/kg	
Copper	17.8	0.5	mg/kg	
Iron	14,500	5.0	mg/kg	
Lead	6.5	0.5	mg/kg	
Magnesium	72,400	50	mg/kg	
Manganese	600	0.5	mg/kg	
Nickel	15.5	0.5	mg/kg	
Potassium	1,470	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	321	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	17.6	1.0	mg/kg	
Zinc	28.5	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-51-04 (5-10)
Sample No: 22-2330-036

Date Collected: 04/07/22
Time Collected: 11:01
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
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	0.012	0.005	mg/L	
Iron	11.6	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/20/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	98	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	106.9	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	110.5	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	62	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	60	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	81	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	79	35 -	105
8270C	Phenol-d5 (surr)	%R:	73.5	50 -	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/07/22

Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47

Time Collected: 11:02

Sample ID: 3919-COV-51-04 (10-15)

Date Received: 04/08/22

Sample No: 22-2330-037

Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	88.91		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/14/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-51-04 (10-15)
Sample No: 22-2330-037

Date Collected: 04/07/22
Time Collected: 11:02
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/14/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/21/22				
Preparation Date: 04/18/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-51-04 (10-15)
Sample No: 22-2330-037

Date Collected: 04/07/22
Time Collected: 11:02
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/21/22		Preparation Date: 04/18/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/07/22

Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47

Time Collected: 11:02

Sample ID: 3919-COV-51-04 (10-15)

Date Received: 04/08/22

Sample No: 22-2330-037

Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/21/22		Preparation Date: 04/18/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals	Method: 6010C	Preparation Method 3050B		
Analysis Date: 04/20/22		Preparation Date: 04/13/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.7	1.0	mg/kg	
Barium	55.3	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	85,600	50	mg/kg	
Chromium	15.2	0.5	mg/kg	
Cobalt	9.9	0.5	mg/kg	
Copper	21.7	0.5	mg/kg	
Iron	19,400	5.0	mg/kg	
Lead	13.3	0.5	mg/kg	
Magnesium	45,000	50	mg/kg	
Manganese	424	0.5	mg/kg	
Nickel	24.5	0.5	mg/kg	
Potassium	2,570	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	186	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	18.9	1.0	mg/kg	
Zinc	37.9	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-51-04 (10-15)
Sample No: 22-2330-037

Date Collected: 04/07/22
Time Collected: 11:02
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	0.8	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/20/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	88.3	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	97	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	106.6	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	69	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	75	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	61.5	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	84	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	72	35 -	105
8270C	Phenol-d5 (surr)	%R:	70	50 -	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/07/22

Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47

Time Collected: 11:03

Sample ID: 3919-COV-51-04 (15-20)

Date Received: 04/08/22

Sample No: 22-2330-038

Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	90.44		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/14/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/07/22

Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47

Time Collected: 11:03

Sample ID: 3919-COV-51-04 (15-20)

Date Received: 04/08/22

Sample No: 22-2330-038

Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/14/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/21/22				
Preparation Date: 04/18/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-51-04 (15-20)
Sample No: 22-2330-038

Date Collected: 04/07/22
Time Collected: 11:03
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/21/22		Preparation Date: 04/18/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-51-04 (15-20)
Sample No: 22-2330-038

Date Collected: 04/07/22
Time Collected: 11:03
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/21/22		Preparation Date: 04/18/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/14/22		Preparation Date: 04/14/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	< 1.0	1.0	mg/kg	
Barium	11.6	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	125,000	50	mg/kg	
Chromium	5.0	0.5	mg/kg	
Cobalt	2.3	0.5	mg/kg	
Copper	5.9	0.5	mg/kg	
Iron	5,360	5.0	mg/kg	
Lead	2.7	0.5	mg/kg	
Magnesium	64,500	50	mg/kg	
Manganese	172	0.5	mg/kg	
Nickel	5.7	0.5	mg/kg	
Potassium	631	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	249	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	9.4	1.0	mg/kg	
Zinc	12.6	1.0	mg/kg	



Analytical Report

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Sample ID: 3919-COV-51-04 (15-20)
Sample No: 22-2330-038

Date Collected: 04/07/22
Time Collected: 11:03
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/21/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/28/22 10:00				
pH @ 25°C, 1:2	8.88		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/13/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/19/22				
Preparation Method 3010A				
Preparation Date: 04/18/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	2.1	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: 04/21/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/13/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-51-04 (15-20)
Sample No: 22-2330-038

Date Collected: 04/07/22
Time Collected: 11:03
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	0.9	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	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/20/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98.2	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.5	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	107.3	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	78	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	70	45	112
8270C	2-Fluorophenol (Surr)	%R:	60.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	86	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	70	35	105
8270C	Phenol-d5 (surr)	%R:	67	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/07/22

Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47

Time Collected: 11:04

Sample ID: 3919-COV-51-04 (20-25)

Date Received: 04/08/22

Sample No: 22-2330-039

Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/14/22				
Total Solids	90.68		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/14/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-51-04 (20-25)
Sample No: 22-2330-039

Date Collected: 04/07/22
Time Collected: 11:04
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/14/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/21/22				
Preparation Date: 04/18/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-51-04 (20-25)
Sample No: 22-2330-039

Date Collected: 04/07/22
Time Collected: 11:04
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/21/22		Preparation Date: 04/18/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-51-04 (20-25)
Sample No: 22-2330-039

Date Collected: 04/07/22
Time Collected: 11:04
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/21/22		Preparation Date: 04/18/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/14/22		Preparation Date: 04/14/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	1.9	1.0	mg/kg	
Barium	18.1	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	58,600	50	mg/kg	
Chromium	7.3	0.5	mg/kg	
Cobalt	3.4	0.5	mg/kg	
Copper	8.6	0.5	mg/kg	
Iron	8,160	5.0	mg/kg	
Lead	3.5	0.5	mg/kg	
Magnesium	28,300	50	mg/kg	
Manganese	227	0.5	mg/kg	
Nickel	8.5	0.5	mg/kg	
Potassium	766	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	139	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	11.0	1.0	mg/kg	
Zinc	19.6	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-51-04 (20-25)
Sample No: 22-2330-039

Date Collected: 04/07/22
Time Collected: 11:04
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	0.5	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/21/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	96.9	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	100.3	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	107.2	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	76.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	71	45	112
8270C	2-Fluorophenol (Surr)	%R:	64	41	84
8270C	d14-Terphenyl (Surr)	%R:	87	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	72	35	105
8270C	Phenol-d5 (surr)	%R:	71	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/07/22

Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47

Time Collected: 11:50

Sample ID: 3919-COV-51-05 (0-4)

Date Received: 04/08/22

Sample No: 22-2330-040

Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/14/22				
Total Solids	79.17		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/14/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-51-05 (0-4)
Sample No: 22-2330-040

Date Collected: 04/07/22
Time Collected: 11:50
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/14/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/21/22				
Preparation Date: 04/18/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-51-05 (0-4)
Sample No: 22-2330-040

Date Collected: 04/07/22
Time Collected: 11:50
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/21/22		Preparation Date: 04/18/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-51-05 (0-4)
Sample No: 22-2330-040

Date Collected: 04/07/22
Time Collected: 11:50
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/21/22		Preparation Date: 04/18/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/14/22		Preparation Date: 04/14/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.9	1.0	mg/kg	
Barium	59.6	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	26,800	50	mg/kg	
Chromium	18.0	0.5	mg/kg	
Cobalt	10.1	0.5	mg/kg	
Copper	18.6	0.5	mg/kg	
Iron	20,000	5.0	mg/kg	
Lead	9.9	0.5	mg/kg	
Magnesium	19,200	50	mg/kg	
Manganese	518	0.5	mg/kg	
Nickel	25.1	0.5	mg/kg	
Potassium	1,180	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	446	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	25.8	1.0	mg/kg	
Zinc	39.8	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-51-05 (0-4)
Sample No: 22-2330-040

Date Collected: 04/07/22
Time Collected: 11:50
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/21/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/28/22 10:00				
pH @ 25°C, 1:2	8.50		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/13/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/21/22				
Preparation Method 3010A				
Preparation Date: 04/20/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.9	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 04/21/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/13/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: 3919-COV-51-05 (0-4)
Sample No: 22-2330-040

Date Collected: 04/07/22
Time Collected: 11:50
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
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	0.015	0.005	mg/L	
Iron	6.6	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/21/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98.1	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.2	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	108.6	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	74	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	67	45	112
8270C	2-Fluorophenol (Surr)	%R:	60.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	86	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	70	35	105
8270C	Phenol-d5 (surr)	%R:	67	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/12/22

Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5

Time Collected: 12:20

Sample ID: 3919-COV-53-02 (0-5)

Date Received: 04/13/22

Sample No: 22-2456-030

Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/18/22				
Total Solids	85.05		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-53-02 (0-5)
Sample No: 22-2456-030

Date Collected: 04/12/22
Time Collected: 12:20
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/28/22				
Preparation Date: 04/26/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-53-02 (0-5)
Sample No: 22-2456-030

Date Collected: 04/12/22
Time Collected: 12:20
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/28/22		Preparation Date: 04/26/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-53-02 (0-5)
Sample No: 22-2456-030

Date Collected: 04/12/22
Time Collected: 12:20
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/28/22		Preparation Date: 04/26/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals	Method: 6010C	Preparation Method 3050B		
Analysis Date: 05/04/22		Preparation Date: 04/30/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.4	1.0	mg/kg	
Barium	30.0	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	64,600	50	mg/kg	
Chromium	74.1	0.5	mg/kg	
Cobalt	7.5	0.5	mg/kg	
Copper	19.3	0.5	mg/kg	
Iron	14,600	5.0	mg/kg	
Lead	302	0.5	mg/kg	
Magnesium	33,000	50	mg/kg	
Manganese	364	0.5	mg/kg	
Nickel	16.3	0.5	mg/kg	
Potassium	1,220	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	271	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	16.5	1.0	mg/kg	
Zinc	45.3	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-53-02 (0-5)
Sample No: 22-2456-030

Date Collected: 04/12/22
Time Collected: 12:20
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/16/22		Preparation Date: 05/11/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	0.3	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/11/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	97.7	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.6	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	106.8	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	84	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	75	45	112
8270C	2-Fluorophenol (Surr)	%R:	75	41	84
8270C	d14-Terphenyl (Surr)	%R:	95	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	91	35	105
8270C	Phenol-d5 (surr)	%R:	84	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 51-06 (0-4)
Sample No: 22-2551-042

Date Collected: 04/14/22
Time Collected: 13:50
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/21/22				
Total Solids	83.79		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/26/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/14/22

Project ID: IDOT 199-014 WO #5 IL 47 Lakewood

Time Collected: 13:50

Sample ID: 51-06 (0-4)

Date Received: 04/15/22

Sample No: 22-2551-042

Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/26/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/29/22				
Preparation Date: 04/28/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 51-06 (0-4)
Sample No: 22-2551-042

Date Collected: 04/14/22
Time Collected: 13:50
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/29/22		Preparation Date: 04/28/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 51-06 (0-4)
Sample No: 22-2551-042

Date Collected: 04/14/22
Time Collected: 13:50
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/29/22		Preparation Date: 04/28/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/10/22		Preparation Date: 05/09/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.0	1.0	mg/kg	
Barium	59.4	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	13,900	50	mg/kg	
Chromium	19.2	0.5	mg/kg	
Cobalt	11.6	0.5	mg/kg	
Copper	20.6	0.5	mg/kg	
Iron	20,600	5.0	mg/kg	
Lead	12.2	0.5	mg/kg	
Magnesium	10,700	50	mg/kg	
Manganese	537	0.5	mg/kg	
Nickel	30.9	0.5	mg/kg	
Potassium	1,200	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	616	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	28.6	1.0	mg/kg	
Zinc	41.2	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 51-06 (0-4)
Sample No: 22-2551-042

Date Collected: 04/14/22
Time Collected: 13:50
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/25/22		Preparation Date: 05/23/22		
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	0.091	0.005	mg/L	
Iron	99.1	0.1	mg/L	
Lead	0.035	0.005	mg/L	
Manganese	0.5	0.1	mg/L	
Nickel	0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.2	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/20/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98.1	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	102.8	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	109.9	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	81.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	80	45	112
8270C	2-Fluorophenol (Surr)	%R:	65	41	84
8270C	d14-Terphenyl (Surr)	%R:	99	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	79	35	105
8270C	Phenol-d5 (surr)	%R:	76.5	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/14/22

Project ID: IDOT 199-014 WO #5 IL 47 Lakewood

Time Collected: 13:42

Sample ID: 51-07 (0-4)

Date Received: 04/15/22

Sample No: 22-2551-041

Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/21/22				
Total Solids	83.79		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/26/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/14/22

Project ID: IDOT 199-014 WO #5 IL 47 Lakewood

Time Collected: 13:42

Sample ID: 51-07 (0-4)

Date Received: 04/15/22

Sample No: 22-2551-041

Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/26/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/29/22				
Preparation Date: 04/28/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 51-07 (0-4)
Sample No: 22-2551-041

Date Collected: 04/14/22
Time Collected: 13:42
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/29/22		Preparation Date: 04/28/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 51-07 (0-4)
Sample No: 22-2551-041

Date Collected: 04/14/22
Time Collected: 13:42
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/29/22		Preparation Date: 04/28/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/10/22		Preparation Date: 05/09/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.5	1.0	mg/kg	
Barium	74.1	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	2,840	50	mg/kg	
Chromium	18.1	0.5	mg/kg	
Cobalt	9.5	0.5	mg/kg	
Copper	15.1	0.5	mg/kg	
Iron	19,400	5.0	mg/kg	
Lead	14.8	0.5	mg/kg	
Magnesium	3,230	50	mg/kg	
Manganese	584	0.5	mg/kg	
Nickel	21.0	0.5	mg/kg	
Potassium	1,080	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	1,070	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	31.0	1.0	mg/kg	
Zinc	42.8	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 51-07 (0-4)
Sample No: 22-2551-041

Date Collected: 04/14/22
Time Collected: 13:42
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 05/06/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 05/17/22 11:25				
pH @ 25°C, 1:2	8.95		Units	
TCLP Extraction Method: 1311				
Analysis Date: 05/09/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 05/25/22				
Preparation Method 3010A				
Preparation Date: 05/23/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 05/20/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 05/09/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 51-07 (0-4)
Sample No: 22-2551-041

Date Collected: 04/14/22
Time Collected: 13:42
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/24/22		Preparation Date: 05/23/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.040	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.025	0.005	mg/L	
Iron	35.3	0.1	mg/L	
Lead	0.014	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/20/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary: Surrogate Recovery				%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	100	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	103.9	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	110.7	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	90.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	99	45	112
8270C	2-Fluorophenol (Surr)	%R:	72.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	125	*	56 - 120
8270C	d5-Nitrobenzene (Surr)	%R:	101		35 - 105
8270C	Phenol-d5 (surr)	%R:	92.5		50 - 100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 51-09 (0-4)
Sample No: 22-2551-039

Date Collected: 04/14/22
Time Collected: 13:37
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/21/22				
Total Solids	82.41		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/26/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 51-09 (0-4)
Sample No: 22-2551-039

Date Collected: 04/14/22
Time Collected: 13:37
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/26/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/07/22				
Preparation Date: 04/29/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 51-09 (0-4)
Sample No: 22-2551-039

Date Collected: 04/14/22
Time Collected: 13:37
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/07/22		Preparation Date: 04/29/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/14/22

Project ID: IDOT 199-014 WO #5 IL 47 Lakewood

Time Collected: 13:37

Sample ID: 51-09 (0-4)

Date Received: 04/15/22

Sample No: 22-2551-039

Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/07/22		Preparation Date: 04/29/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals	Method: 6010C	Preparation Method 3050B		
Analysis Date: 05/10/22		Preparation Date: 05/09/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	9.2	1.0	mg/kg	
Barium	64.4	0.5	mg/kg	
Beryllium	0.9	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	4,360	50	mg/kg	
Chromium	26.0	0.5	mg/kg	
Cobalt	14.1	0.5	mg/kg	
Copper	26.9	0.5	mg/kg	
Iron	29,800	5.0	mg/kg	
Lead	19.5	0.5	mg/kg	
Magnesium	6,050	50	mg/kg	
Manganese	419	0.5	mg/kg	
Nickel	33.5	0.5	mg/kg	
Potassium	1,660	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	3,000	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	35.5	1.0	mg/kg	
Zinc	57.5	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/14/22

Project ID: IDOT 199-014 WO #5 IL 47 Lakewood

Time Collected: 13:37

Sample ID: 51-09 (0-4)

Date Received: 04/15/22

Sample No: 22-2551-039

Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 05/06/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 05/17/22 11:25				
pH @ 25°C, 1:2	8.48		Units	
TCLP Extraction Method: 1311				
Analysis Date: 05/09/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 05/24/22				
Preparation Method 3010A Preparation Date: 05/23/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 05/19/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 05/09/22				
SPLP Metals Extraction	Complete			
Arsenic	0.028	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 51-09 (0-4)
Sample No: 22-2551-039

Date Collected: 04/14/22
Time Collected: 13:37
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/24/22		Preparation Date: 05/23/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	0.005	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.136	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.113	0.005	mg/L	
Iron	130	0.1	mg/L	
Lead	0.035	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	0.3	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/19/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)			86	117
5035A/8260B	d8-Toluene (Surr)			90	110
5035A/8260B	Dibromofluoromethane (Surr)			77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	85	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	77	45	112
8270C	2-Fluorophenol (Surr)	%R:	58.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	99	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	69	35	105
8270C	Phenol-d5 (surr)	%R:	72	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/14/22

Project ID: IDOT 199-014 WO #5 IL 47 Lakewood

Time Collected: 13:35

Sample ID: 51-10 (0-4)

Date Received: 04/15/22

Sample No: 22-2551-038

Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/21/22				
Total Solids	84.31		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/26/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/14/22

Project ID: IDOT 199-014 WO #5 IL 47 Lakewood

Time Collected: 13:35

Sample ID: 51-10 (0-4)

Date Received: 04/15/22

Sample No: 22-2551-038

Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/26/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/07/22				
Preparation Date: 04/29/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 51-10 (0-4)
Sample No: 22-2551-038

Date Collected: 04/14/22
Time Collected: 13:35
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/07/22		Preparation Date: 04/29/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



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Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/07/22		Preparation Date: 04/29/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/10/22		Preparation Date: 05/09/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	6.2	1.0	mg/kg	
Barium	50.9	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	1,460	50	mg/kg	
Chromium	25.0	0.5	mg/kg	
Cobalt	11.8	0.5	mg/kg	
Copper	24.9	0.5	mg/kg	
Iron	23,600	5.0	mg/kg	
Lead	12.1	0.5	mg/kg	
Magnesium	2,780	50	mg/kg	
Manganese	472	0.5	mg/kg	
Nickel	20.9	0.5	mg/kg	
Potassium	811	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	2,530	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	44.9	1.0	mg/kg	
Zinc	41.9	1.0	mg/kg	



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Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 05/06/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 05/17/22 11:25				
pH @ 25°C, 1:2	8.30		Units	
TCLP Extraction Method: 1311				
Analysis Date: 05/09/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 05/24/22				
Preparation Method 3010A				
Preparation Date: 05/23/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 05/19/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 05/09/22				
SPLP Metals Extraction	Complete			
Arsenic	0.019	0.010	mg/L	



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Date Collected: 04/14/22
Time Collected: 13:35
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/24/22		Preparation Date: 05/23/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.097	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.107	0.005	mg/L	
Iron	92.8	0.1	mg/L	
Lead	0.023	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	0.2	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/19/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)			86	117
5035A/8260B	d8-Toluene (Surr)			90	110
5035A/8260B	Dibromofluoromethane (Surr)			77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	88.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	74	45	112
8270C	2-Fluorophenol (Surr)	%R:	64	41	84
8270C	d14-Terphenyl (Surr)	%R:	98	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	71	35	105
8270C	Phenol-d5 (surr)	%R:	74.5	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-53-02 (5-10)
Sample No: 22-2456-031

Date Collected: 04/12/22
Time Collected: 12:25
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/18/22				
Total Solids	85.58		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-53-02 (5-10)
Sample No: 22-2456-031

Date Collected: 04/12/22
Time Collected: 12:25
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/28/22				
Preparation Date: 04/26/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



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Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-53-02 (5-10)
Sample No: 22-2456-031

Date Collected: 04/12/22
Time Collected: 12:25
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/28/22		Preparation Date: 04/26/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

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Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-53-02 (5-10)
Sample No: 22-2456-031

Date Collected: 04/12/22
Time Collected: 12:25
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/28/22		Preparation Date: 04/26/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/04/22		Preparation Date: 04/30/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	1.2	1.0	mg/kg	
Barium	9.5	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	70,300	50	mg/kg	
Chromium	4.9	0.5	mg/kg	
Cobalt	2.5	0.5	mg/kg	
Copper	6.6	0.5	mg/kg	
Iron	6,020	5.0	mg/kg	
Lead	2.7	0.5	mg/kg	
Magnesium	33,900	50	mg/kg	
Manganese	192	0.5	mg/kg	
Nickel	5.6	0.5	mg/kg	
Potassium	454	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	113	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	9.2	1.0	mg/kg	
Zinc	15.3	1.0	mg/kg	



Analytical Report

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Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-53-02 (5-10)
Sample No: 22-2456-031

Date Collected: 04/12/22
Time Collected: 12:25
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/16/22		Preparation Date: 05/11/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.007	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.012	0.005	mg/L	
Iron	7.2	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/12/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	97.2	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	104.4	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	93.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	83	45	112
8270C	2-Fluorophenol (Surr)	%R:	86.5	*	41 - 84
8270C	d14-Terphenyl (Surr)	%R:	88	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	98	35	105
8270C	Phenol-d5 (surr)	%R:	98.5	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-53-02 (10-15.5)
Sample No: 22-2456-032

Date Collected: 04/12/22
Time Collected: 12:30
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/18/22				
Total Solids	86.43		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-53-02 (10-15.5)
Sample No: 22-2456-032

Date Collected: 04/12/22
Time Collected: 12:30
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/28/22				
Preparation Date: 04/26/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-53-02 (10-15.5)
Sample No: 22-2456-032

Date Collected: 04/12/22
Time Collected: 12:30
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/28/22		Preparation Date: 04/26/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-53-02 (10-15.5)
Sample No: 22-2456-032

Date Collected: 04/12/22
Time Collected: 12:30
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/28/22		Preparation Date: 04/26/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/04/22		Preparation Date: 04/30/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.0	1.0	mg/kg	
Barium	10.7	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	66,100	50	mg/kg	
Chromium	5.7	0.5	mg/kg	
Cobalt	3.1	0.5	mg/kg	
Copper	9.7	0.5	mg/kg	
Iron	6,390	5.0	mg/kg	
Lead	3.0	0.5	mg/kg	
Magnesium	30,600	50	mg/kg	
Manganese	206	0.5	mg/kg	
Nickel	7.3	0.5	mg/kg	
Potassium	643	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	116	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	9.4	1.0	mg/kg	
Zinc	13.8	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-53-02 (10-15.5)
Sample No: 22-2456-032

Date Collected: 04/12/22
Time Collected: 12:30
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 05/02/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 05/03/22 9:50				
pH @ 25°C, 1:2	8.60		Units	
TCLP Extraction Method: 1311				
Analysis Date: 05/04/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 05/13/22				
Preparation Method 3010A				
Preparation Date: 05/12/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	2.0	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: 05/10/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 05/04/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-53-02 (10-15.5)
Sample No: 22-2456-032

Date Collected: 04/12/22
Time Collected: 12:30
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/16/22		Preparation Date: 05/11/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	0.6	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/11/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	96.2	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.8	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	104.8	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	87.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	77	45	112
8270C	2-Fluorophenol (Surr)	%R:	76	41	84
8270C	d14-Terphenyl (Surr)	%R:	92	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	87	35	105
8270C	Phenol-d5 (surr)	%R:	86.5	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-54-01 (0-3)
Sample No: 22-2456-033

Date Collected: 04/12/22
Time Collected: 11:45
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/18/22				
Total Solids	85.24		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-54-01 (0-3)
Sample No: 22-2456-033

Date Collected: 04/12/22
Time Collected: 11:45
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/28/22				
Preparation Date: 04/26/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-54-01 (0-3)
Sample No: 22-2456-033

Date Collected: 04/12/22
Time Collected: 11:45
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/28/22		Preparation Date: 04/26/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-54-01 (0-3)
Sample No: 22-2456-033

Date Collected: 04/12/22
Time Collected: 11:45
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/28/22		Preparation Date: 04/26/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals	Method: 6010C	Preparation Method 3050B		
Analysis Date: 05/04/22		Preparation Date: 04/30/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.8	1.0	mg/kg	
Barium	38.1	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	40,100	50	mg/kg	
Chromium	13.5	0.5	mg/kg	
Cobalt	8.4	0.5	mg/kg	
Copper	16.7	0.5	mg/kg	
Iron	15,600	5.0	mg/kg	
Lead	10.1	0.5	mg/kg	
Magnesium	23,200	50	mg/kg	
Manganese	327	0.5	mg/kg	
Nickel	18.1	0.5	mg/kg	
Potassium	1,310	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	1,440	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	22.0	1.0	mg/kg	
Zinc	36.2	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-54-01 (0-3)
Sample No: 22-2456-033

Date Collected: 04/12/22
Time Collected: 11:45
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 05/02/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 05/03/22 9:50				
pH @ 25°C, 1:2	8.51		Units	
TCLP Extraction Method: 1311				
Analysis Date: 05/04/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 05/13/22				
Preparation Method 3010A				
Preparation Date: 05/12/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	5.6	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 05/10/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 05/04/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-54-01 (0-3)
Sample No: 22-2456-033

Date Collected: 04/12/22
Time Collected: 11:45
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/16/22		Preparation Date: 05/11/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.022	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.023	0.005	mg/L	
Iron	22.5	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	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/11/22			
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	86	117
5035A/8260B	d8-Toluene (Surr)	%R: 98.9	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R: 107.1	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R: 87.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R: 67	45	112
8270C	2-Fluorophenol (Surr)	%R: 66	41	84
8270C	d14-Terphenyl (Surr)	%R: 99	56	120
8270C	d5-Nitrobenzene (Surr)	%R: 77	35	105
8270C	Phenol-d5 (surr)	%R: 75	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-54-01 (3-6.5)
Sample No: 22-2456-034

Date Collected: 04/12/22
Time Collected: 11:50
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/18/22				
Total Solids	87.74		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-54-01 (3-6.5)
Sample No: 22-2456-034

Date Collected: 04/12/22
Time Collected: 11:50
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/28/22				
Preparation Date: 04/26/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-54-01 (3-6.5)
Sample No: 22-2456-034

Date Collected: 04/12/22
Time Collected: 11:50
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/28/22		Preparation Date: 04/26/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-54-01 (3-6.5)
Sample No: 22-2456-034

Date Collected: 04/12/22
Time Collected: 11:50
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/28/22		Preparation Date: 04/26/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/04/22		Preparation Date: 04/30/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	1.8	1.0	mg/kg	
Barium	41.7	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	40,000	50	mg/kg	
Chromium	13.4	0.5	mg/kg	
Cobalt	4.6	0.5	mg/kg	
Copper	11.2	0.5	mg/kg	
Iron	15,300	5.0	mg/kg	
Lead	6.4	0.5	mg/kg	
Magnesium	24,700	50	mg/kg	
Manganese	168	0.5	mg/kg	
Nickel	13.0	0.5	mg/kg	
Potassium	657	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	270	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	29.4	1.0	mg/kg	
Zinc	22.0	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-54-01 (3-6.5)
Sample No: 22-2456-034

Date Collected: 04/12/22
Time Collected: 11:50
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 05/02/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 05/05/22 9:40				
pH @ 25°C, 1:2	8.32		Units	
TCLP Extraction Method: 1311				
Analysis Date: 05/04/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 05/13/22				
Preparation Method 3010A				
Preparation Date: 05/12/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	2.6	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 05/10/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 05/04/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-54-01 (3-6.5)
Sample No: 22-2456-034

Date Collected: 04/12/22
Time Collected: 11:50
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/16/22		Preparation Date: 05/11/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.007	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	5.7	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/11/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	96.6	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.8	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	106.6	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	88.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	74	45	112
8270C	2-Fluorophenol (Surr)	%R:	66	41	84
8270C	d14-Terphenyl (Surr)	%R:	99	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	77	35	105
8270C	Phenol-d5 (surr)	%R:	80	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 56-01 (0-3)
Sample No: 22-2551-037

Date Collected: 04/14/22
Time Collected: 13:30
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/21/22				
Total Solids	78.67		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/26/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 56-01 (0-3)
Sample No: 22-2551-037

Date Collected: 04/14/22
Time Collected: 13:30
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/26/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/07/22				
Preparation Date: 04/29/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 56-01 (0-3)
Sample No: 22-2551-037

Date Collected: 04/14/22
Time Collected: 13:30
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/07/22		Preparation Date: 04/29/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 56-01 (0-3)
Sample No: 22-2551-037

Date Collected: 04/14/22
Time Collected: 13:30
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/07/22		Preparation Date: 04/29/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/10/22		Preparation Date: 05/09/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.9	1.0	mg/kg	
Barium	105	0.5	mg/kg	
Beryllium	0.9	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	3,320	50	mg/kg	
Chromium	28.2	0.5	mg/kg	
Cobalt	12.9	0.5	mg/kg	
Copper	26.4	0.5	mg/kg	
Iron	30,000	5.0	mg/kg	
Lead	15.1	0.5	mg/kg	
Magnesium	5,120	50	mg/kg	
Manganese	713	0.5	mg/kg	
Nickel	32.9	0.5	mg/kg	
Potassium	1,640	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	1,360	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	44.2	1.0	mg/kg	
Zinc	58.5	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 56-01 (0-3)
Sample No: 22-2551-037

Date Collected: 04/14/22
Time Collected: 13:30
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/24/22		Preparation Date: 05/23/22		
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	0.042	0.005	mg/L	
Iron	51.9	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/19/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)			86	117
5035A/8260B	d8-Toluene (Surr)			90	110
5035A/8260B	Dibromofluoromethane (Surr)			77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	93	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	86	45	112
8270C	2-Fluorophenol (Surr)	%R:	66	41	84
8270C	d14-Terphenyl (Surr)	%R:	104	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	74	35	105
8270C	Phenol-d5 (surr)	%R:	80.5	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 56-02 (0-3)
Sample No: 22-2551-036

Date Collected: 04/14/22
Time Collected: 13:24
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/21/22				
Total Solids	78.12		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/26/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/14/22

Project ID: IDOT 199-014 WO #5 IL 47 Lakewood

Time Collected: 13:24

Sample ID: 56-02 (0-3)

Date Received: 04/15/22

Sample No: 22-2551-036

Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/26/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/07/22				
Preparation Date: 04/29/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 56-02 (0-3)
Sample No: 22-2551-036

Date Collected: 04/14/22
Time Collected: 13:24
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/07/22		Preparation Date: 04/29/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 56-02 (0-3)
Sample No: 22-2551-036

Date Collected: 04/14/22
Time Collected: 13:24
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/07/22		Preparation Date: 04/29/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/10/22		Preparation Date: 05/09/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	8.0	1.0	mg/kg	
Barium	94.6	0.5	mg/kg	
Beryllium	0.9	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	2,870	50	mg/kg	
Chromium	28.8	0.5	mg/kg	
Cobalt	12.5	0.5	mg/kg	
Copper	27.1	0.5	mg/kg	
Iron	29,900	5.0	mg/kg	
Lead	14.5	0.5	mg/kg	
Magnesium	5,620	50	mg/kg	
Manganese	562	0.5	mg/kg	
Nickel	36.9	0.5	mg/kg	
Potassium	2,030	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	1,670	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	38.4	1.0	mg/kg	
Zinc	60.2	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 56-02 (0-3)
Sample No: 22-2551-036

Date Collected: 04/14/22
Time Collected: 13:24
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/24/22		Preparation Date: 05/23/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.094	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.065	0.005	mg/L	
Iron	77.1	0.1	mg/L	
Lead	0.010	0.005	mg/L	
Manganese	0.3	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.2	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/19/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)			86	117
5035A/8260B	d8-Toluene (Surr)			90	110
5035A/8260B	Dibromofluoromethane (Surr)			77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	91	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	73	45	112
8270C	2-Fluorophenol (Surr)	%R:	61	41	84
8270C	d14-Terphenyl (Surr)	%R:	103	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	69	35	105
8270C	Phenol-d5 (surr)	%R:	72	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/14/22

Project ID: IDOT 199-014 WO #5 IL 47 Lakewood

Time Collected: 13:22

Sample ID: 56-03 (0-3)

Date Received: 04/15/22

Sample No: 22-2551-035

Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/21/22				
Total Solids	77.79		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/26/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/14/22

Project ID: IDOT 199-014 WO #5 IL 47 Lakewood

Time Collected: 13:22

Sample ID: 56-03 (0-3)

Date Received: 04/15/22

Sample No: 22-2551-035

Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/26/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/07/22				
Preparation Date: 04/29/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 56-03 (0-3)
Sample No: 22-2551-035

Date Collected: 04/14/22
Time Collected: 13:22
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/07/22		Preparation Date: 04/29/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 56-03 (0-3)
Sample No: 22-2551-035

Date Collected: 04/14/22
Time Collected: 13:22
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/07/22		Preparation Date: 04/29/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/10/22		Preparation Date: 05/09/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.9	1.0	mg/kg	
Barium	107	0.5	mg/kg	
Beryllium	1.0	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	3,410	50	mg/kg	
Chromium	29.6	0.5	mg/kg	
Cobalt	14.6	0.5	mg/kg	
Copper	29.6	0.5	mg/kg	
Iron	30,500	5.0	mg/kg	
Lead	15.7	0.5	mg/kg	
Magnesium	5,970	50	mg/kg	
Manganese	755	0.5	mg/kg	
Nickel	41.8	0.5	mg/kg	
Potassium	2,130	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	2,140	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	38.7	1.0	mg/kg	
Zinc	62.7	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 56-03 (0-3)
Sample No: 22-2551-035

Date Collected: 04/14/22
Time Collected: 13:22
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/24/22		Preparation Date: 05/23/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.082	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.059	0.005	mg/L	
Iron	68.0	0.1	mg/L	
Lead	0.009	0.005	mg/L	
Manganese	0.3	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	0.2	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/19/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)			86	117
5035A/8260B	d8-Toluene (Surr)			90	110
5035A/8260B	Dibromofluoromethane (Surr)			77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	90.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	74	45	112
8270C	2-Fluorophenol (Surr)	%R:	64	41	84
8270C	d14-Terphenyl (Surr)	%R:	100	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	71	35	105
8270C	Phenol-d5 (surr)	%R:	75	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/14/22

Project ID: IDOT 199-014 WO #5 IL 47 Lakewood

Time Collected: 13:20

Sample ID: 56-04 (0-3)

Date Received: 04/15/22

Sample No: 22-2551-034

Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/21/22				
Total Solids	82.70		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/26/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/14/22

Project ID: IDOT 199-014 WO #5 IL 47 Lakewood

Time Collected: 13:20

Sample ID: 56-04 (0-3)

Date Received: 04/15/22

Sample No: 22-2551-034

Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/26/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/07/22				
Preparation Date: 04/29/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 56-04 (0-3)
Sample No: 22-2551-034

Date Collected: 04/14/22
Time Collected: 13:20
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/07/22		Preparation Date: 04/29/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 56-04 (0-3)
Sample No: 22-2551-034

Date Collected: 04/14/22
Time Collected: 13:20
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/07/22		Preparation Date: 04/29/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/10/22		Preparation Date: 05/09/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.6	1.0	mg/kg	
Barium	74.0	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	2,490	50	mg/kg	
Chromium	20.3	0.5	mg/kg	
Cobalt	4.1	0.5	mg/kg	
Copper	12.2	0.5	mg/kg	
Iron	20,000	5.0	mg/kg	
Lead	6.9	0.5	mg/kg	
Magnesium	3,300	50	mg/kg	
Manganese	145	0.5	mg/kg	
Nickel	16.0	0.5	mg/kg	
Potassium	853	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	1,070	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	33.6	1.0	mg/kg	
Zinc	38.1	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 56-04 (0-3)
Sample No: 22-2551-034

Date Collected: 04/14/22
Time Collected: 13:20
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/24/22		Preparation Date: 05/23/22		
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	0.022	0.005	mg/L	
Iron	40.7	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/19/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)			86	117
5035A/8260B	d8-Toluene (Surr)			90	110
5035A/8260B	Dibromofluoromethane (Surr)			77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	88	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	81	45	112
8270C	2-Fluorophenol (Surr)	%R:	62.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	98	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	71	35	105
8270C	Phenol-d5 (surr)	%R:	72.5	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 56-05 (0-3)
Sample No: 22-2551-033

Date Collected: 04/14/22
Time Collected: 13:15
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/21/22				
Total Solids	81.10		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/26/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 56-05 (0-3)
Sample No: 22-2551-033

Date Collected: 04/14/22
Time Collected: 13:15
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/26/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/07/22				
Preparation Date: 04/29/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/14/22

Project ID: IDOT 199-014 WO #5 IL 47 Lakewood

Time Collected: 13:15

Sample ID: 56-05 (0-3)

Date Received: 04/15/22

Sample No: 22-2551-033

Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/07/22		Preparation Date: 04/29/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 56-05 (0-3)
Sample No: 22-2551-033

Date Collected: 04/14/22
Time Collected: 13:15
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/07/22		Preparation Date: 04/29/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/10/22		Preparation Date: 05/09/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.1	1.0	mg/kg	
Barium	62.7	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	5,750	50	mg/kg	
Chromium	16.9	0.5	mg/kg	
Cobalt	12.0	0.5	mg/kg	
Copper	16.2	0.5	mg/kg	
Iron	18,700	5.0	mg/kg	
Lead	14.1	0.5	mg/kg	
Magnesium	3,870	50	mg/kg	
Manganese	504	0.5	mg/kg	
Nickel	18.9	0.5	mg/kg	
Potassium	1,240	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	1,830	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	30.2	1.0	mg/kg	
Zinc	41.5	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/14/22

Project ID: IDOT 199-014 WO #5 IL 47 Lakewood

Time Collected: 13:15

Sample ID: 56-05 (0-3)

Date Received: 04/15/22

Sample No: 22-2551-033

Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 05/06/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 05/17/22 11:25				
pH @ 25°C, 1:2	8.56		Units	
TCLP Extraction Method: 1311				
Analysis Date: 05/09/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 05/24/22				
Preparation Method 3010A				
Preparation Date: 05/23/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 05/19/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 05/09/22				
SPLP Metals Extraction	Complete			
Arsenic	0.013	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 56-05 (0-3)
Sample No: 22-2551-033

Date Collected: 04/14/22
Time Collected: 13:15
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/24/22		Preparation Date: 05/23/22		
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	0.045	0.005	mg/L	
Iron	56.7	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	
Zinc	0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/19/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)			86	117
5035A/8260B	d8-Toluene (Surr)			90	110
5035A/8260B	Dibromofluoromethane (Surr)			77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	90.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	91	45	112
8270C	2-Fluorophenol (Surr)	%R:	64.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	112	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	84	35	105
8270C	Phenol-d5 (surr)	%R:	80.5	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/14/22

Project ID: IDOT 199-014 WO #5 IL 47 Lakewood

Time Collected: 11:40

Sample ID: 57-06 (0-4.5)

Date Received: 04/15/22

Sample No: 22-2551-031

Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/21/22				
Total Solids	82.56		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/26/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/14/22

Project ID: IDOT 199-014 WO #5 IL 47 Lakewood

Time Collected: 11:40

Sample ID: 57-06 (0-4.5)

Date Received: 04/15/22

Sample No: 22-2551-031

Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/26/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/07/22				
Preparation Date: 04/29/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/14/22

Project ID: IDOT 199-014 WO #5 IL 47 Lakewood

Time Collected: 11:40

Sample ID: 57-06 (0-4.5)

Date Received: 04/15/22

Sample No: 22-2551-031

Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/07/22		Preparation Date: 04/29/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 57-06 (0-4.5)
Sample No: 22-2551-031

Date Collected: 04/14/22
Time Collected: 11:40
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/07/22		Preparation Date: 04/29/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/09/22		Preparation Date: 05/05/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.6	1.0	mg/kg	
Barium	64.1	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	34,500	50	mg/kg	
Chromium	16.1	0.5	mg/kg	
Cobalt	7.0	0.5	mg/kg	
Copper	21.2	0.5	mg/kg	
Iron	16,700	5.0	mg/kg	
Lead	47.0	0.5	mg/kg	
Magnesium	19,800	50	mg/kg	
Manganese	424	0.5	mg/kg	
Nickel	14.7	0.5	mg/kg	
Potassium	1,170	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	2,320	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	29.7	1.0	mg/kg	
Zinc	51.1	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/14/22

Project ID: IDOT 199-014 WO #5 IL 47 Lakewood

Time Collected: 11:40

Sample ID: 57-06 (0-4.5)

Date Received: 04/15/22

Sample No: 22-2551-031

Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 05/06/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 05/17/22 11:25				
pH @ 25°C, 1:2	8.14		Units	
TCLP Extraction Method: 1311				
Analysis Date: 05/09/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 05/24/22				
Preparation Method 3010A				
Preparation Date: 05/23/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	4.5	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 05/19/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 05/09/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: 57-06 (0-4.5)
Sample No: 22-2551-031

Date Collected: 04/14/22
Time Collected: 11:40
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/24/22		Preparation Date: 05/23/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.020	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.024	0.005	mg/L	
Iron	16.2	0.1	mg/L	
Lead	0.019	0.005	mg/L	
Manganese	0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/19/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)			86	117
5035A/8260B	d8-Toluene (Surr)			90	110
5035A/8260B	Dibromofluoromethane (Surr)			77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	94.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	92	45	112
8270C	2-Fluorophenol (Surr)	%R:	63	41	84
8270C	d14-Terphenyl (Surr)	%R:	108	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	77	35	105
8270C	Phenol-d5 (surr)	%R:	76	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-05 (0-5)
Sample No: 22-2456-049

Date Collected: 04/12/22
Time Collected: 11:00
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/18/22				
Total Solids	88.10		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-05 (0-5)
Sample No: 22-2456-049

Date Collected: 04/12/22
Time Collected: 11:00
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/02/22				
Preparation Date: 04/26/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-05 (0-5)
Sample No: 22-2456-049

Date Collected: 04/12/22
Time Collected: 11:00
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/02/22		Preparation Date: 04/26/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-05 (0-5)
Sample No: 22-2456-049

Date Collected: 04/12/22
Time Collected: 11:00
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/02/22		Preparation Date: 04/26/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals	Method: 6010C	Preparation Method 3050B		
Analysis Date: 05/03/22		Preparation Date: 04/30/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.8	1.0	mg/kg	
Barium	20.7	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	92,500	50	mg/kg	
Chromium	11.9	0.5	mg/kg	
Cobalt	5.5	0.5	mg/kg	
Copper	16.2	0.5	mg/kg	
Iron	13,600	5.0	mg/kg	
Lead	6.9	0.5	mg/kg	
Magnesium	48,500	50	mg/kg	
Manganese	371	0.5	mg/kg	
Nickel	17.0	0.5	mg/kg	
Potassium	1,700	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	476	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	16.6	1.0	mg/kg	
Zinc	30.8	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-05 (0-5)
Sample No: 22-2456-049

Date Collected: 04/12/22
Time Collected: 11:00
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 05/03/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 05/05/22 9:40				
pH @ 25°C, 1:2	8.26		Units	
TCLP Extraction Method: 1311				
Analysis Date: 05/05/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 05/16/22				
Preparation Method 3010A Preparation Date: 05/12/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.7	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 05/11/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 05/05/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-05 (0-5)
Sample No: 22-2456-049

Date Collected: 04/12/22
Time Collected: 11:00
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/18/22		Preparation Date: 05/12/22		
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	0.010	0.005	mg/L	
Iron	7.7	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/12/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98.5	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.8	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	106.1	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	82.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	77	45	112
8270C	2-Fluorophenol (Surr)	%R:	62	41	84
8270C	d14-Terphenyl (Surr)	%R:	97	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	70	35	105
8270C	Phenol-d5 (surr)	%R:	72	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/12/22

Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5

Time Collected: 11:05

Sample ID: 3919-COV-59-05 (5-10)

Date Received: 04/13/22

Sample No: 22-2456-050

Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/20/22				
Total Solids	86.65		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-05 (5-10)
Sample No: 22-2456-050

Date Collected: 04/12/22
Time Collected: 11:05
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/03/22				
Preparation Date: 04/26/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-05 (5-10)
Sample No: 22-2456-050

Date Collected: 04/12/22
Time Collected: 11:05
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/03/22		Preparation Date: 04/26/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-05 (5-10)
Sample No: 22-2456-050

Date Collected: 04/12/22
Time Collected: 11:05
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/03/22		Preparation Date: 04/26/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/03/22		Preparation Date: 04/30/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	2.8	1.0	mg/kg	
Barium	14.1	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	83,100	50	mg/kg	
Chromium	10.1	0.5	mg/kg	
Cobalt	5.2	0.5	mg/kg	
Copper	14.5	0.5	mg/kg	
Iron	10,900	5.0	mg/kg	
Lead	6.9	0.5	mg/kg	
Magnesium	43,200	50	mg/kg	
Manganese	326	0.5	mg/kg	
Nickel	12.8	0.5	mg/kg	
Potassium	1,110	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	134	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	14.3	1.0	mg/kg	
Zinc	26.0	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-05 (5-10)
Sample No: 22-2456-050

Date Collected: 04/12/22
Time Collected: 11:05
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 05/03/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 05/05/22 9:40				
pH @ 25°C, 1:2	8.22		Units	
TCLP Extraction Method: 1311				
Analysis Date: 05/05/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 05/16/22				
Preparation Method 3010A Preparation Date: 05/12/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	1.6	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 05/11/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 05/05/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-05 (5-10)
Sample No: 22-2456-050

Date Collected: 04/12/22
Time Collected: 11:05
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/18/22		Preparation Date: 05/12/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	1.0	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	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/12/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	95.7	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.4	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	106.7	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	84	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	78	45	112
8270C	2-Fluorophenol (Surr)	%R:	63	41	84
8270C	d14-Terphenyl (Surr)	%R:	97	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	73	35	105
8270C	Phenol-d5 (surr)	%R:	72	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-05 (10-12)
Sample No: 22-2456-051

Date Collected: 04/12/22
Time Collected: 11:10
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/20/22				
Total Solids	86.6		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-05 (10-12)
Sample No: 22-2456-051

Date Collected: 04/12/22
Time Collected: 11:10
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/21/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/03/22				
Preparation Date: 04/26/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-05 (10-12)
Sample No: 22-2456-051

Date Collected: 04/12/22
Time Collected: 11:10
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/03/22		Preparation Date: 04/26/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-05 (10-12)
Sample No: 22-2456-051

Date Collected: 04/12/22
Time Collected: 11:10
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/03/22		Preparation Date: 04/26/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals	Method: 6010C	Preparation Method 3050B		
Analysis Date: 05/03/22		Preparation Date: 04/30/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.6	1.0	mg/kg	
Barium	19.9	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	95,500	50	mg/kg	
Chromium	14.0	0.5	mg/kg	
Cobalt	8.9	0.5	mg/kg	
Copper	20.1	0.5	mg/kg	
Iron	15,600	5.0	mg/kg	
Lead	9.9	0.5	mg/kg	
Magnesium	52,000	50	mg/kg	
Manganese	397	0.5	mg/kg	
Nickel	21.7	0.5	mg/kg	
Potassium	2,130	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	244	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	17.7	1.0	mg/kg	
Zinc	36.3	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: 3919-COV-59-05 (10-12)
Sample No: 22-2456-051

Date Collected: 04/12/22
Time Collected: 11:10
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/18/22		Preparation Date: 05/12/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	0.4	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/12/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	90.8	86 -	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.2	90 -	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	105.7	77 -	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	89.5	59 -	131
8270C	2-Fluorobiphenyl (Surr)	%R:	91	45 -	112
8270C	2-Fluorophenol (Surr)	%R:	79.5	41 -	84
8270C	d14-Terphenyl (Surr)	%R:	103	56 -	120
8270C	d5-Nitrobenzene (Surr)	%R:	91	35 -	105
8270C	Phenol-d5 (surr)	%R:	89	50 -	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: DUP - 06
Sample No: 22-2117-048

Date Collected: 04/01/22
Time Collected: 9:06
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/05/22				
Total Solids	87.05		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/09/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: DUP - 06
Sample No: 22-2117-048

Date Collected: 04/01/22
Time Collected: 9:06
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/09/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/08/22				
Preparation Date: 04/07/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: DUP - 06
Sample No: 22-2117-048

Date Collected: 04/01/22
Time Collected: 9:06
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/08/22		Preparation Date: 04/07/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: DUP - 06
Sample No: 22-2117-048

Date Collected: 04/01/22
Time Collected: 9:06
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/08/22		Preparation Date: 04/07/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/07/22		Preparation Date: 04/06/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	5.1	1.0	mg/kg	
Barium	27.4	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	0.8	0.5	mg/kg	
Calcium	75,100	50	mg/kg	
Chromium	14.6	0.5	mg/kg	
Cobalt	8.1	0.5	mg/kg	
Copper	18.6	0.5	mg/kg	
Iron	16,900	5.0	mg/kg	
Lead	9.5	0.5	mg/kg	
Magnesium	39,500	50	mg/kg	
Manganese	315	0.5	mg/kg	
Nickel	23.0	0.5	mg/kg	
Potassium	1,870	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	221	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	19.0	1.0	mg/kg	
Zinc	42.0	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: DUP - 06
Sample No: 22-2117-048

Date Collected: 04/01/22
Time Collected: 9:06
Date Received: 04/04/22
Date Reported: 04/15/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/08/22		Preparation Date: 04/08/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.009	0.005	mg/L	
Iron	3.5	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/07/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	97.8	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	97.7	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	90.6	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	70.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	71	45	112
8270C	2-Fluorophenol (Surr)	%R:	59	41	84
8270C	d14-Terphenyl (Surr)	%R:	92	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	69	35	105
8270C	Phenol-d5 (surr)	%R:	66.5	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/06/22

Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5

Time Collected: 11:05

Sample ID: DUP - 12 (5-10)

Date Received: 04/07/22

Sample No: 22-2256-051

Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/12/22				
Total Solids	87.28		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/13/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: DUP - 12 (5-10)
Sample No: 22-2256-051

Date Collected: 04/06/22
Time Collected: 11:05
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/13/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/18/22				
Preparation Date: 04/14/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: DUP - 12 (5-10)
Sample No: 22-2256-051

Date Collected: 04/06/22
Time Collected: 11:05
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/18/22		Preparation Date: 04/14/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: DUP - 12 (5-10)
Sample No: 22-2256-051

Date Collected: 04/06/22
Time Collected: 11:05
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/18/22		Preparation Date: 04/14/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/12/22		Preparation Date: 04/11/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.9	1.0	mg/kg	
Barium	21.6	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	65,100	50	mg/kg	
Chromium	15.3	0.5	mg/kg	
Cobalt	6.7	0.5	mg/kg	
Copper	16.9	0.5	mg/kg	
Iron	16,200	5.0	mg/kg	
Lead	8.8	0.5	mg/kg	
Magnesium	34,300	50	mg/kg	
Manganese	291	0.5	mg/kg	
Nickel	21.2	0.5	mg/kg	
Potassium	2,170	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	183	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	19.2	1.0	mg/kg	
Zinc	39.2	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: DUP - 12 (5-10)
Sample No: 22-2256-051

Date Collected: 04/06/22
Time Collected: 11:05
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 04/12/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 04/20/22 10:46				
pH @ 25°C, 1:2	8.27		Units	
TCLP Extraction Method: 1311				
Analysis Date: 04/12/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 04/14/22				
Preparation Method 3010A				
Preparation Date: 04/13/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	< 0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.7	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 04/14/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 04/12/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: DUP - 12 (5-10)
Sample No: 22-2256-051

Date Collected: 04/06/22
Time Collected: 11:05
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/14/22		Preparation Date: 04/14/22		
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	< 0.005	0.005	mg/L	
Iron	3.4	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/14/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	87.7	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	103.2	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	134.5	*	59 - 131
8270C	2-Fluorobiphenyl (Surr)	%R:	78		45 - 112
8270C	2-Fluorophenol (Surr)	%R:	69		41 - 84
8270C	d14-Terphenyl (Surr)	%R:	109		56 - 120
8270C	d5-Nitrobenzene (Surr)	%R:	86		35 - 105
8270C	Phenol-d5 (surr)	%R:	91.5		50 - 100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: DUP - 13 (5-10)
Sample No: 22-2256-050

Date Collected: 04/06/22
Time Collected: 12:00
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/07/22				
Total Solids	87.73		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/13/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: DUP - 13 (5-10)
Sample No: 22-2256-050

Date Collected: 04/06/22
Time Collected: 12:00
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/13/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/18/22				
Preparation Date: 04/14/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: DUP - 13 (5-10)
Sample No: 22-2256-050

Date Collected: 04/06/22
Time Collected: 12:00
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/18/22		Preparation Date: 04/14/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: DUP - 13 (5-10)
Sample No: 22-2256-050

Date Collected: 04/06/22
Time Collected: 12:00
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/18/22		Preparation Date: 04/14/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/12/22		Preparation Date: 04/11/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.4	1.0	mg/kg	
Barium	41.9	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	79,500	50	mg/kg	
Chromium	15.6	0.5	mg/kg	
Cobalt	8.8	0.5	mg/kg	
Copper	18.1	0.5	mg/kg	
Iron	17,300	5.0	mg/kg	
Lead	8.5	0.5	mg/kg	
Magnesium	42,200	50	mg/kg	
Manganese	349	0.5	mg/kg	
Nickel	22.9	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	196	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	20.0	1.0	mg/kg	
Zinc	41.8	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: DUP - 13 (5-10)
Sample No: 22-2256-050

Date Collected: 04/06/22
Time Collected: 12:00
Date Received: 04/07/22
Date Reported: 04/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/14/22		Preparation Date: 04/14/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.005	0.005	mg/L	
Iron	1.2	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/14/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	93.1	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.3	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	106	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	112.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	63	45	112
8270C	2-Fluorophenol (Surr)	%R:	58	41	84
8270C	d14-Terphenyl (Surr)	%R:	87	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	66	35	105
8270C	Phenol-d5 (surr)	%R:	76.5	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/07/22

Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47

Time Collected: 8:15

Sample ID: DUP-16 (0-4)

Date Received: 04/08/22

Sample No: 22-2330-043

Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/14/22				
Total Solids	85.67		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/14/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: DUP-16 (0-4)
Sample No: 22-2330-043

Date Collected: 04/07/22
Time Collected: 8:15
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/14/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/21/22				
Preparation Date: 04/18/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: DUP-16 (0-4)
Sample No: 22-2330-043

Date Collected: 04/07/22
Time Collected: 8:15
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/21/22		Preparation Date: 04/18/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: DUP-16 (0-4)
Sample No: 22-2330-043

Date Collected: 04/07/22
Time Collected: 8:15
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/21/22		Preparation Date: 04/18/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/14/22		Preparation Date: 04/14/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.4	1.0	mg/kg	
Barium	37.4	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	30,400	50	mg/kg	
Chromium	13.3	0.5	mg/kg	
Cobalt	6.1	0.5	mg/kg	
Copper	14.4	0.5	mg/kg	
Iron	15,200	5.0	mg/kg	
Lead	9.2	0.5	mg/kg	
Magnesium	17,200	50	mg/kg	
Manganese	321	0.5	mg/kg	
Nickel	15.2	0.5	mg/kg	
Potassium	838	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	74	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	21.6	1.0	mg/kg	
Zinc	32.2	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: 81.0220714.06, IDOT 199-014 WO #5 IL 47
Sample ID: DUP-16 (0-4)
Sample No: 22-2330-043

Date Collected: 04/07/22
Time Collected: 8:15
Date Received: 04/08/22
Date Reported: 04/28/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.006	0.005	mg/L	
Iron	3.0	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	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 04/21/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	99	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	99.4	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	75.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	72	45	112
8270C	2-Fluorophenol (Surr)	%R:	54	41	84
8270C	d14-Terphenyl (Surr)	%R:	93	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	68	35	105
8270C	Phenol-d5 (surr)	%R:	64.5	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: DUP-18
Sample No: 22-2365-037

Date Collected: 04/08/22
Time Collected: 9:18
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/15/22				
Total Solids	73.79		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/15/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: DUP-18
Sample No: 22-2365-037

Date Collected: 04/08/22
Time Collected: 9:18
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/15/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/22/22				
Preparation Date: 04/20/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: DUP-18
Sample No: 22-2365-037

Date Collected: 04/08/22
Time Collected: 9:18
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: DUP-18
Sample No: 22-2365-037

Date Collected: 04/08/22
Time Collected: 9:18
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/22/22		Preparation Date: 04/20/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/25/22		Preparation Date: 04/19/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	1.2	1.0	mg/kg	
Barium	72.2	0.5	mg/kg	
Beryllium	0.6	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	49,000	50	mg/kg	
Chromium	17.9	0.5	mg/kg	
Cobalt	8.1	0.5	mg/kg	
Copper	18.8	0.5	mg/kg	
Iron	14,200	5.0	mg/kg	
Lead	12.3	0.5	mg/kg	
Magnesium	23,900	50	mg/kg	
Manganese	211	0.5	mg/kg	
Nickel	20.8	0.5	mg/kg	
Potassium	1,460	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	687	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	26.6	1.0	mg/kg	
Zinc	54.4	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: DUP-18
Sample No: 22-2365-037

Date Collected: 04/08/22
Time Collected: 9:18
Date Received: 04/11/22
Date Reported: 05/03/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 04/27/22		Preparation Date: 04/21/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.005	0.005	mg/L	
Iron	0.8	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/03/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	94.6	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.6	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	103.3	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	111.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	56	45	112
8270C	2-Fluorophenol (Surr)	%R:	58.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	89	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	55	35	105
8270C	Phenol-d5 (surr)	%R:	75.5	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/11/22

Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05

Time Collected: 8:00

Sample ID: DUP-20 (5-10)

Date Received: 04/12/22

Sample No: 22-2423-046

Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/18/22				
Total Solids	86.17		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/20/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/11/22

Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05

Time Collected: 8:00

Sample ID: DUP-20 (5-10)

Date Received: 04/12/22

Sample No: 22-2423-046

Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/20/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/25/22				
Preparation Date: 04/22/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/11/22

Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05

Time Collected: 8:00

Sample ID: DUP-20 (5-10)

Date Received: 04/12/22

Sample No: 22-2423-046

Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 04/25/22		Preparation Date: 04/22/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: DUP-20 (5-10)
Sample No: 22-2423-046

Date Collected: 04/11/22
Time Collected: 8:00
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 04/25/22		Preparation Date: 04/22/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 04/28/22		Preparation Date: 04/28/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.0	1.0	mg/kg	
Barium	28.7	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	13.8	0.5	mg/kg	
Cobalt	13.7	0.5	mg/kg	
Copper	18.0	0.5	mg/kg	
Iron	15,300	5.0	mg/kg	
Lead	8.9	0.5	mg/kg	
Magnesium	36,100	50	mg/kg	
Manganese	475	0.5	mg/kg	
Nickel	24.8	0.5	mg/kg	
Potassium	1,820	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	269	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	18.2	1.0	mg/kg	
Zinc	34.8	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL47 81.0220714.05
Sample ID: DUP-20 (5-10)
Sample No: 22-2423-046

Date Collected: 04/11/22
Time Collected: 8:00
Date Received: 04/12/22
Date Reported: 05/11/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/11/22		Preparation Date: 05/10/22		
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	0.009	0.005	mg/L	
Iron	8.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/09/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	95.4	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.6	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	103.5	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	81.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	70	45	112
8270C	2-Fluorophenol (Surr)	%R:	59.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	94	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	69	35	105
8270C	Phenol-d5 (surr)	%R:	68	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: DUP-26 (0-5)
Sample No: 22-2456-056

Date Collected: 04/12/22
Time Collected: 8:10
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/20/22				
Total Solids	85.56		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/22/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: DUP-26 (0-5)
Sample No: 22-2456-056

Date Collected: 04/12/22
Time Collected: 8:10
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/22/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/03/22				
Preparation Date: 04/26/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: DUP-26 (0-5)
Sample No: 22-2456-056

Date Collected: 04/12/22
Time Collected: 8:10
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/03/22		Preparation Date: 04/26/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: DUP-26 (0-5)
Sample No: 22-2456-056

Date Collected: 04/12/22
Time Collected: 8:10
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/03/22		Preparation Date: 04/26/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/03/22		Preparation Date: 04/30/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.2	1.0	mg/kg	
Barium	31.0	0.5	mg/kg	
Beryllium	0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	80,200	50	mg/kg	
Chromium	17.8	0.5	mg/kg	
Cobalt	11.7	0.5	mg/kg	
Copper	24.6	0.5	mg/kg	
Iron	19,300	5.0	mg/kg	
Lead	10.3	0.5	mg/kg	
Magnesium	40,800	50	mg/kg	
Manganese	401	0.5	mg/kg	
Nickel	25.9	0.5	mg/kg	
Potassium	2,470	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	517	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	24.6	1.0	mg/kg	
Zinc	43.2	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: PO# 81.0220714.06, IDOT 199-014 WO #5
Sample ID: DUP-26 (0-5)
Sample No: 22-2456-056

Date Collected: 04/12/22
Time Collected: 8:10
Date Received: 04/13/22
Date Reported: 05/18/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/18/22		Preparation Date: 05/12/22		
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	0.011	0.005	mg/L	
Iron	9.8	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/12/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	96.7	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.2	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	106.9	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	90	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	83	45	112
8270C	2-Fluorophenol (Surr)	%R:	72	41	84
8270C	d14-Terphenyl (Surr)	%R:	102	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	80	35	105
8270C	Phenol-d5 (surr)	%R:	83	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/14/22

Project ID: IDOT 199-014 WO #5 IL 47 Lakewood

Time Collected: 8:33

Sample ID: DUP-33

Date Received: 04/15/22

Sample No: 22-2551-047

Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/21/22				
Total Solids	79.34		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/26/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/14/22

Project ID: IDOT 199-014 WO #5 IL 47 Lakewood

Time Collected: 8:33

Sample ID: DUP-33

Date Received: 04/15/22

Sample No: 22-2551-047

Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/26/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/04/22				
Preparation Date: 04/28/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: DUP-33
Sample No: 22-2551-047

Date Collected: 04/14/22
Time Collected: 8:33
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/04/22		Preparation Date: 04/28/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: DUP-33
Sample No: 22-2551-047

Date Collected: 04/14/22
Time Collected: 8:33
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/04/22		Preparation Date: 04/28/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/10/22		Preparation Date: 05/09/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	7.7	1.0	mg/kg	
Barium	117	0.5	mg/kg	
Beryllium	0.9	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	3,480	50	mg/kg	
Chromium	26.9	0.5	mg/kg	
Cobalt	18.3	0.5	mg/kg	
Copper	23.7	0.5	mg/kg	
Iron	28,800	5.0	mg/kg	
Lead	17.5	0.5	mg/kg	
Magnesium	4,530	50	mg/kg	
Manganese	1,230	0.5	mg/kg	
Nickel	31.9	0.5	mg/kg	
Potassium	1,480	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	1,490	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	44.7	1.0	mg/kg	
Zinc	54.6	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: DUP-33
Sample No: 22-2551-047

Date Collected: 04/14/22
Time Collected: 8:33
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/24/22		Preparation Date: 05/23/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.057	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.037	0.005	mg/L	
Iron	46.2	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	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/20/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
Method	Analyte	QC Result		Low	High
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98.1	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	103	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	109.1	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	86	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	76	45	112
8270C	2-Fluorophenol (Surr)	%R:	57	41	84
8270C	d14-Terphenyl (Surr)	%R:	96	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	65	35	105
8270C	Phenol-d5 (surr)	%R:	69	50	100



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/14/22

Project ID: IDOT 199-014 WO #5 IL 47 Lakewood

Time Collected: 8:45

Sample ID: DUP-34

Date Received: 04/15/22

Sample No: 22-2551-048

Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/21/22				
Total Solids	79.42		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/26/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: DUP-34
Sample No: 22-2551-048

Date Collected: 04/14/22
Time Collected: 8:45
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/26/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/04/22				
Preparation Date: 04/28/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: DUP-34
Sample No: 22-2551-048

Date Collected: 04/14/22
Time Collected: 8:45
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/04/22		Preparation Date: 04/28/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.

Date Collected: 04/14/22

Project ID: IDOT 199-014 WO #5 IL 47 Lakewood

Time Collected: 8:45

Sample ID: DUP-34

Date Received: 04/15/22

Sample No: 22-2551-048

Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/04/22				Preparation Date: 04/28/22
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/10/22				Preparation Date: 05/09/22
Antimony	< 1.0	1.0	mg/kg	
Arsenic	9.1	1.0	mg/kg	
Barium	92.9	0.5	mg/kg	
Beryllium	0.8	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	3,020	50	mg/kg	
Chromium	30.7	0.5	mg/kg	
Cobalt	14.9	0.5	mg/kg	
Copper	29.6	0.5	mg/kg	
Iron	33,800	5.0	mg/kg	
Lead	18.7	0.5	mg/kg	
Magnesium	5,340	50	mg/kg	
Manganese	494	0.5	mg/kg	
Nickel	30.0	0.5	mg/kg	
Potassium	1,800	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	1,730	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	45.5	1.0	mg/kg	
Zinc	61.7	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO #5 IL 47 Lakewood
Sample ID: DUP-34
Sample No: 22-2551-048

Date Collected: 04/14/22
Time Collected: 8:45
Date Received: 04/15/22
Date Reported: 05/25/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/24/22		Preparation Date: 05/23/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	0.005	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.134	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.114	0.005	mg/L	
Iron	137	0.1	mg/L	
Lead	0.039	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	0.3	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/20/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	98.4	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	102.7	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	106.7	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	86	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	71	45	112
8270C	2-Fluorophenol (Surr)	%R:	52	41	84
8270C	d14-Terphenyl (Surr)	%R:	100	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	62	35	105
8270C	Phenol-d5 (surr)	%R:	62.5	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: DUP-38
Sample No: 22-2550-028

Date Collected: 04/15/22
Time Collected: 8:38
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/20/22				
Total Solids	90.12		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/23/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: DUP-38
Sample No: 22-2550-028

Date Collected: 04/15/22
Time Collected: 8:38
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/23/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/01/22				
Preparation Date: 04/29/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: DUP-38
Sample No: 22-2550-028

Date Collected: 04/15/22
Time Collected: 8:38
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/01/22		Preparation Date: 04/29/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: DUP-38
Sample No: 22-2550-028

Date Collected: 04/15/22
Time Collected: 8:38
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/01/22		Preparation Date: 04/29/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/05/22		Preparation Date: 05/04/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	1.8	1.0	mg/kg	
Barium	13.1	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	126,000	50	mg/kg	
Chromium	6.5	0.5	mg/kg	
Cobalt	2.8	0.5	mg/kg	
Copper	7.8	0.5	mg/kg	
Iron	6,980	5.0	mg/kg	
Lead	2.9	0.5	mg/kg	
Magnesium	62,900	50	mg/kg	
Manganese	171	0.5	mg/kg	
Nickel	7.1	0.5	mg/kg	
Potassium	703	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	121	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	10.3	1.0	mg/kg	
Zinc	16.3	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: DUP-38
Sample No: 22-2550-028

Date Collected: 04/15/22
Time Collected: 8:38
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Total Mercury Method: 7471B				
Analysis Date: 05/04/22				
Mercury	< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2 Method: 9045D				
Analysis Date: 05/16/22 13:00				
pH @ 25°C, 1:2	8.91		Units	
TCLP Extraction Method: 1311				
Analysis Date: 05/11/22				
TCLP Extraction	Complete			
TCLP Metals Method 1311 Method: 6010C				
Analysis Date: 05/20/22				
Preparation Method 3010A				
Preparation Date: 05/17/22				
Arsenic	< 0.010	0.010	mg/L	
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	< 0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	< 0.1	0.1	mg/L	
Iron	0.1	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	0.7	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	
TCLP Mercury Method 1311 Method: 7470A				
Analysis Date: 05/17/22				
Mercury	< 0.0005	0.0005	mg/L	
SPLP Extraction Method: 1312				
Analysis Date: 05/10/22				
SPLP Metals Extraction	Complete			
Arsenic	< 0.010	0.010	mg/L	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: DUP-38
Sample No: 22-2550-028

Date Collected: 04/15/22
Time Collected: 8:38
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/19/22		Preparation Date: 05/17/22		
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	0.013	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	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/17/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	99.2	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	99.1	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	104.9	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	89	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	80	45	112
8270C	2-Fluorophenol (Surr)	%R:	71	41	84
8270C	d14-Terphenyl (Surr)	%R:	106	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	82	35	105
8270C	Phenol-d5 (surr)	%R:	78	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: DUP-39
Sample No: 22-2550-029

Date Collected: 04/15/22
Time Collected: 8:39
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/20/22				
Total Solids	77.64		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/23/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: DUP-39
Sample No: 22-2550-029

Date Collected: 04/15/22
Time Collected: 8:39
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/23/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/01/22				
Preparation Date: 04/29/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: DUP-39
Sample No: 22-2550-029

Date Collected: 04/15/22
Time Collected: 8:39
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/01/22		Preparation Date: 04/29/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: DUP-39
Sample No: 22-2550-029

Date Collected: 04/15/22
Time Collected: 8:39
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/01/22		Preparation Date: 04/29/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/05/22		Preparation Date: 05/04/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	3.4	1.0	mg/kg	
Barium	20.8	0.5	mg/kg	
Beryllium	< 0.5	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	81,600	50	mg/kg	
Chromium	9.1	0.5	mg/kg	
Cobalt	3.6	0.5	mg/kg	
Copper	11.4	0.5	mg/kg	
Iron	11,300	5.0	mg/kg	
Lead	3.9	0.5	mg/kg	
Magnesium	39,300	50	mg/kg	
Manganese	213	0.5	mg/kg	
Nickel	9.9	0.5	mg/kg	
Potassium	968	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	132	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	13.6	1.0	mg/kg	
Zinc	26.6	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: DUP-39
Sample No: 22-2550-029

Date Collected: 04/15/22
Time Collected: 8:39
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/19/22		Preparation Date: 05/17/22		
Barium	< 1.0	1.0	mg/L	
Beryllium	< 0.004	0.004	mg/L	
Cadmium	< 0.005	0.005	mg/L	
Chromium	0.005	0.005	mg/L	
Cobalt	< 0.1	0.1	mg/L	
Copper	0.007	0.005	mg/L	
Iron	4.3	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/17/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	99.1	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	100.7	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	105.9	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	88.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	74	45	112
8270C	2-Fluorophenol (Surr)	%R:	69.5	41	84
8270C	d14-Terphenyl (Surr)	%R:	105	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	80	35	105
8270C	Phenol-d5 (surr)	%R:	76.5	50	100



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: DUP-40
Sample No: 22-2550-030

Date Collected: 04/15/22
Time Collected: 8:40
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total		Method: 2540G 2011		
Analysis Date: 04/20/22				
Total Solids	81.20		%	
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/23/22				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: DUP-40
Sample No: 22-2550-030

Date Collected: 04/15/22
Time Collected: 8:40
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds		Method: 5035A/8260B		
Analysis Date: 04/23/22				
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/01/22				
Preparation Date: 04/29/22				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	< 90	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: DUP-40
Sample No: 22-2550-030

Date Collected: 04/15/22
Time Collected: 8:40
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds	Method: 8270C	Preparation Method 3540C		
Analysis Date: 05/01/22		Preparation Date: 04/29/22		
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: DUP-40
Sample No: 22-2550-030

Date Collected: 04/15/22
Time Collected: 8:40
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds		Method: 8270C		Preparation Method 3540C
Analysis Date: 05/01/22		Preparation Date: 04/29/22		
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	
2,4,6-Trichlorophenol	< 330	330	ug/kg	
Total Metals		Method: 6010C		Preparation Method 3050B
Analysis Date: 05/05/22		Preparation Date: 05/04/22		
Antimony	< 1.0	1.0	mg/kg	
Arsenic	4.9	1.0	mg/kg	
Barium	74.2	0.5	mg/kg	
Beryllium	0.7	0.5	mg/kg	
Cadmium	< 0.5	0.5	mg/kg	
Calcium	2,390	50	mg/kg	
Chromium	20.6	0.5	mg/kg	
Cobalt	9.2	0.5	mg/kg	
Copper	20.3	0.5	mg/kg	
Iron	22,200	5.0	mg/kg	
Lead	12.3	0.5	mg/kg	
Magnesium	4,510	50	mg/kg	
Manganese	358	0.5	mg/kg	
Nickel	29.5	0.5	mg/kg	
Potassium	1,440	50	mg/kg	
Selenium	< 1.0	1.0	mg/kg	
Silver	< 0.2	0.2	mg/kg	
Sodium	< 50	50	mg/kg	
Thallium	< 1.0	1.0	mg/kg	
Vanadium	26.8	1.0	mg/kg	
Zinc	51.0	1.0	mg/kg	



Analytical Report

Client: HUFF & HUFF INC.
Project ID: IDOT 199-014 WO#5 IL 47 Lakewood
Sample ID: DUP-40
Sample No: 22-2550-030

Date Collected: 04/15/22
Time Collected: 8:40
Date Received: 04/15/22
Date Reported: 05/20/22

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
SPLP Metals Method 1312		Method: 6010C		Preparation Method 3010A
Analysis Date: 05/17/22		Preparation Date: 05/16/22		
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	0.007	0.005	mg/L	
Iron	7.4	0.1	mg/L	
Lead	< 0.005	0.005	mg/L	
Manganese	< 0.1	0.1	mg/L	
Nickel	< 0.1	0.1	mg/L	
Selenium	< 0.010	0.010	mg/L	
Silver	< 0.005	0.005	mg/L	
Zinc	< 0.1	0.1	mg/L	

SPLP Mercury Method 1312		Method: 7470A	
Analysis Date: 05/17/22			
Mercury	< 0.0005	0.0005	mg/L

Sample QC Summary:		Surrogate Recovery		%R Limits	
<i>Method</i>	<i>Analyte</i>	<i>QC Result</i>		<i>Low</i>	<i>High</i>
5035A/8260B	4-Bromofluorobenzene (Surr)	%R:	99.5	86	117
5035A/8260B	d8-Toluene (Surr)	%R:	98.2	90	110
5035A/8260B	Dibromofluoromethane (Surr)	%R:	105.7	77	120
8270C	2,4,6-Tribromophenol (Surr)	%R:	82.5	59	131
8270C	2-Fluorobiphenyl (Surr)	%R:	69	45	112
8270C	2-Fluorophenol (Surr)	%R:	72	41	84
8270C	d14-Terphenyl (Surr)	%R:	106	56	120
8270C	d5-Nitrobenzene (Surr)	%R:	83	35	105
8270C	Phenol-d5 (surr)	%R:	82	50	100